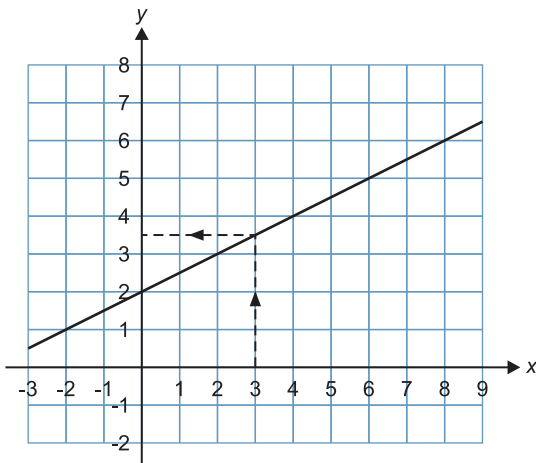


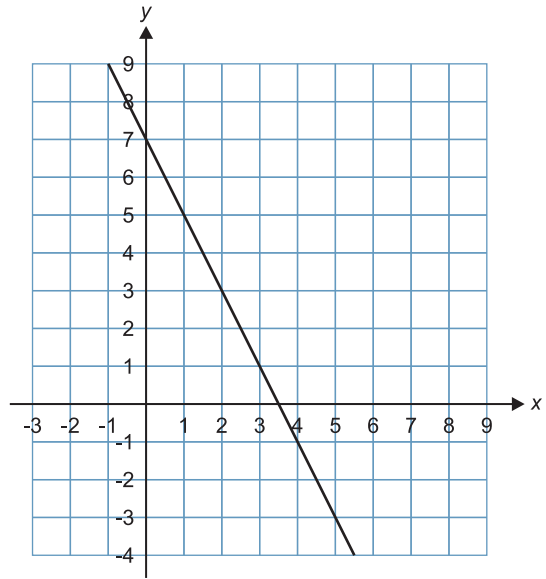
Testopgaver i lineære funktioner

Erik Vestergaard

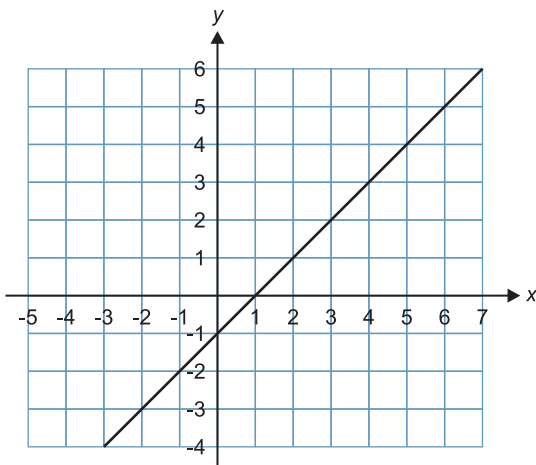
Aflæs funktionsværdier



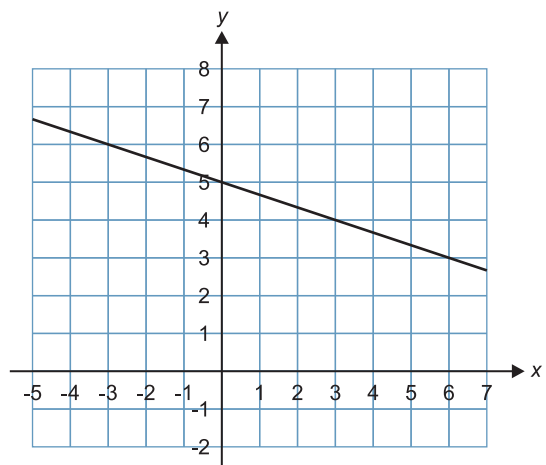
$$f(3) = 3,5$$



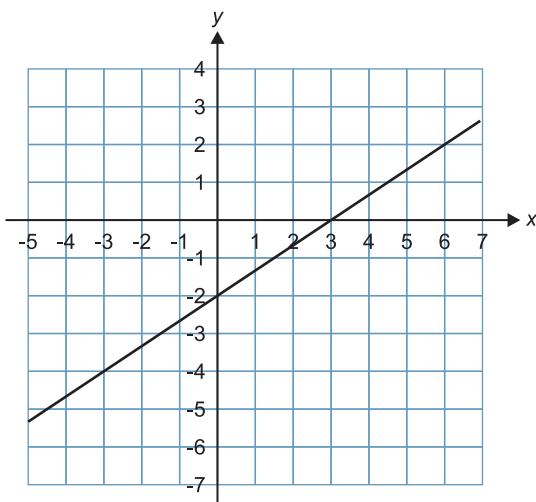
$$f(2) = \boxed{}$$



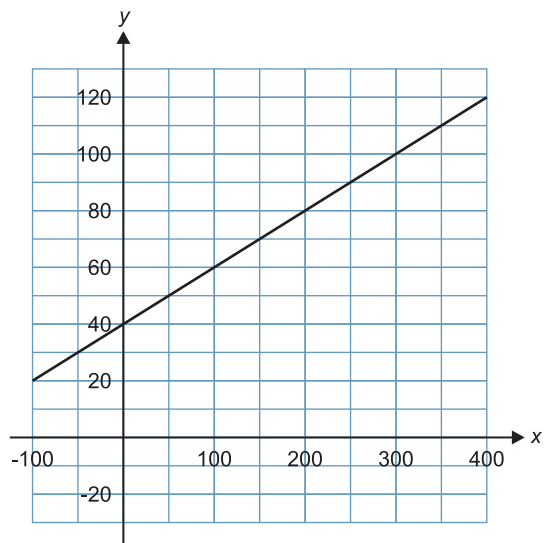
$$f(-2) = \boxed{}$$



$$f(-2) = \boxed{}$$

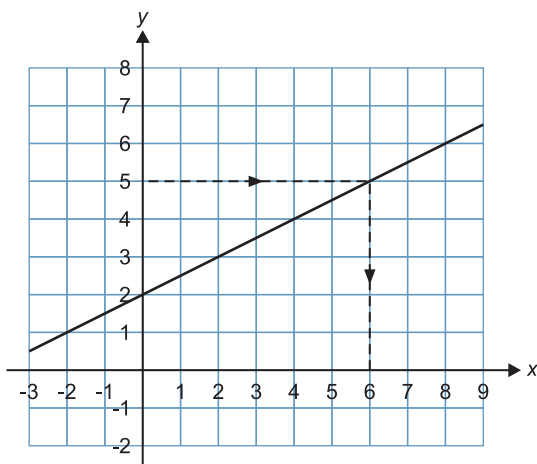


$$f(0) = \boxed{}$$

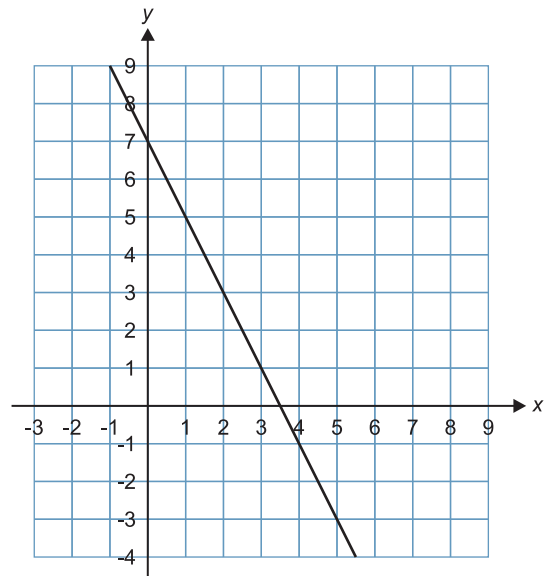


$$f(150) = \boxed{}$$

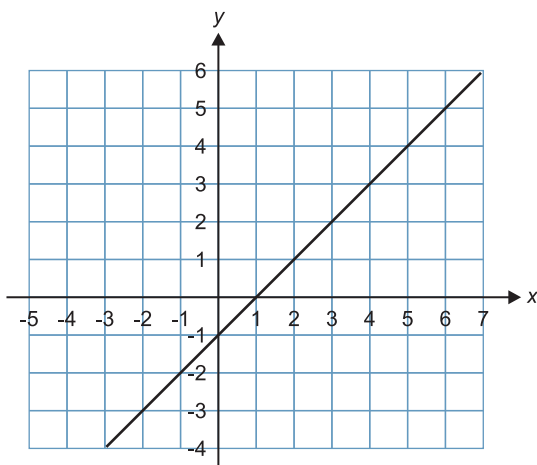
Løs ligninger grafisk



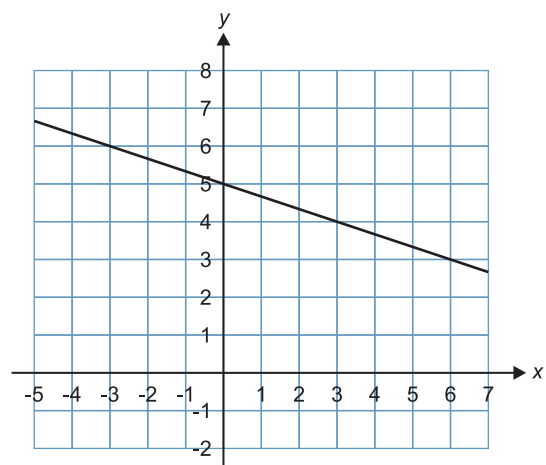
$$f(x) = 5 \Leftrightarrow x = 6$$



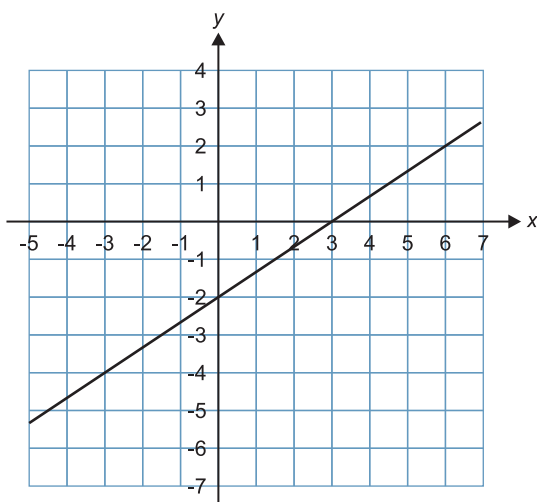
$$f(x) = 4 \Leftrightarrow x = \boxed{}$$



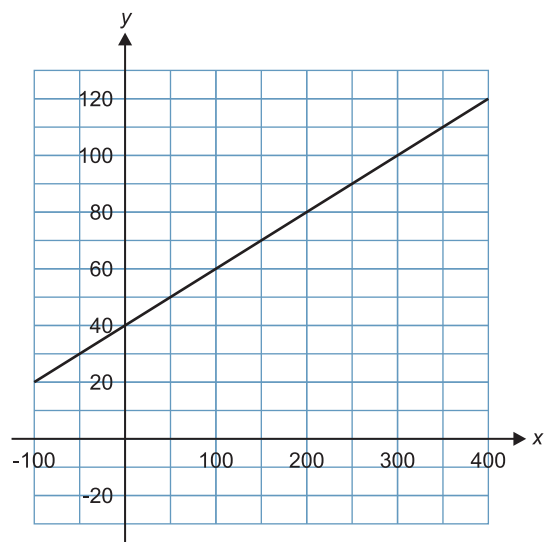
$$f(x) = -2 \Leftrightarrow x = \boxed{}$$



$$f(x) = 6 \Leftrightarrow x = \boxed{}$$

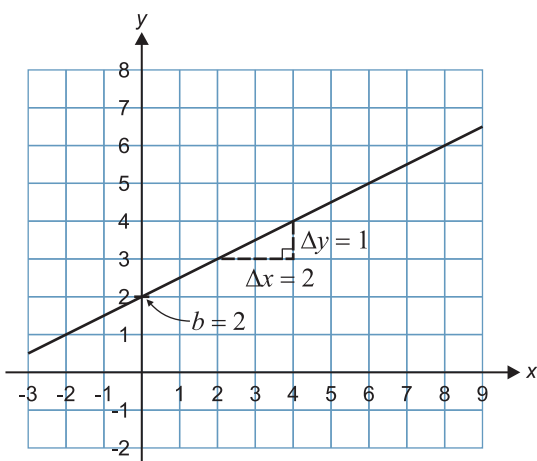


$$f(x) = 1 \Leftrightarrow x = \boxed{}$$



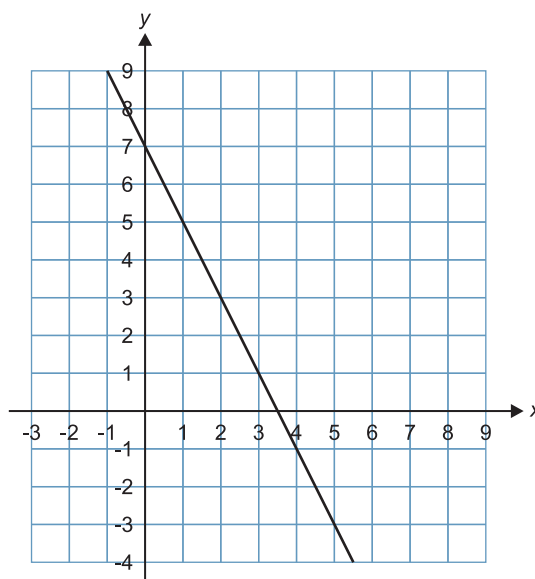
$$f(x) = 75 \Leftrightarrow x = \boxed{}$$

Bestem forskriften

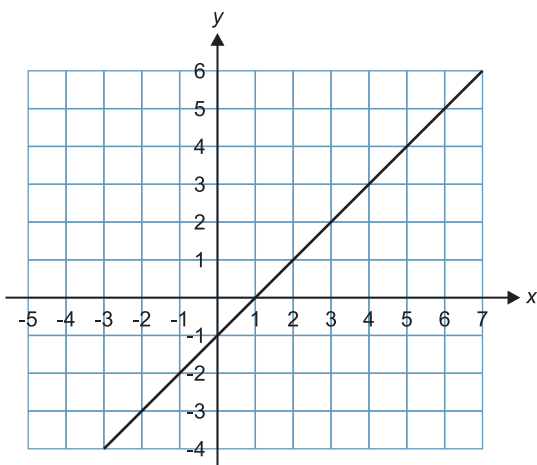


$$a = \frac{\Delta y}{\Delta x} = \frac{1}{2} = 0,5 \quad b = 2$$

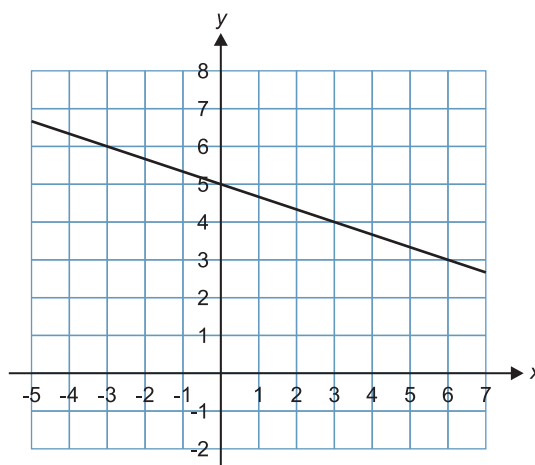
så $y = 0,5x + 2$



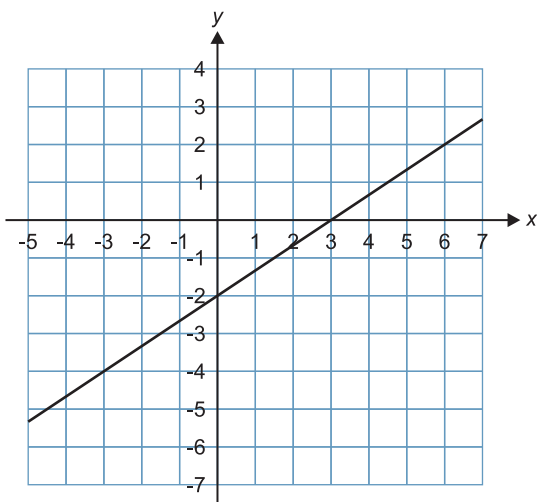
$a = \square \quad b = \square \quad y = \square$



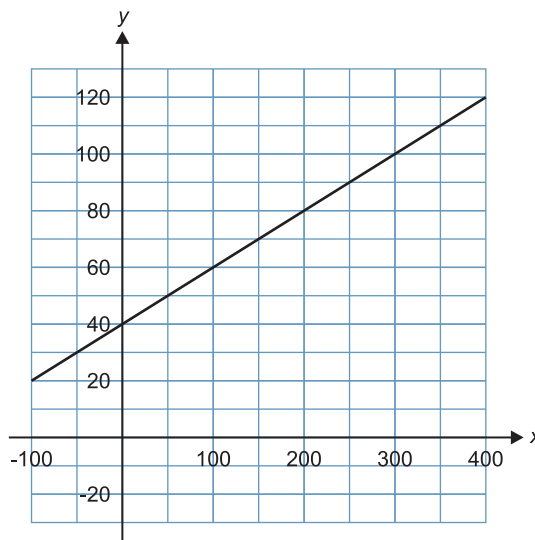
$a = \square \quad b = \square \quad y = \square$



$a = \square \quad b = \square \quad y = \square$

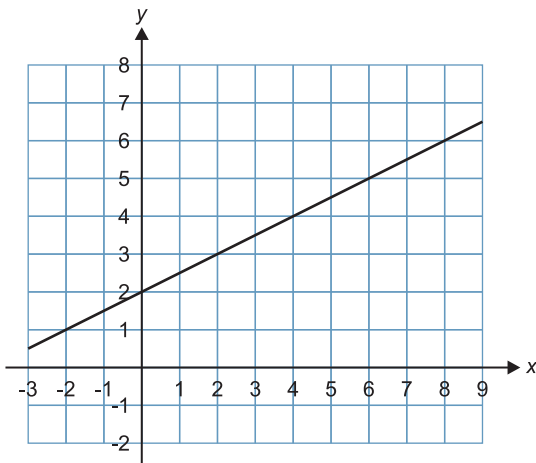


$a = \square \quad b = \square \quad y = \square$



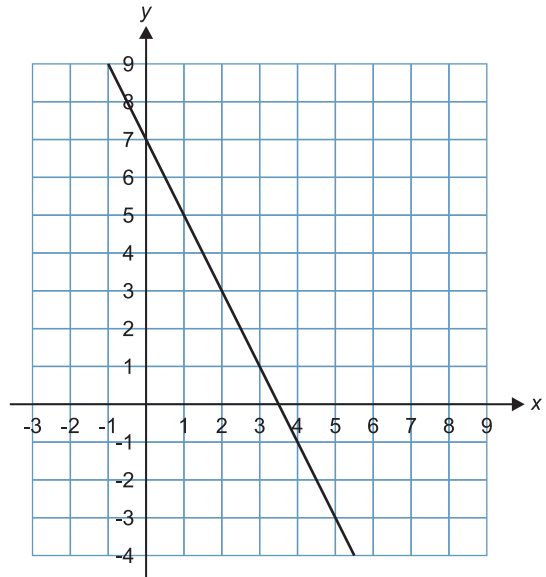
$a = \square \quad b = \square \quad y = \square$

Beregn funktionsværdier ud fra forskrift (se forrige side)

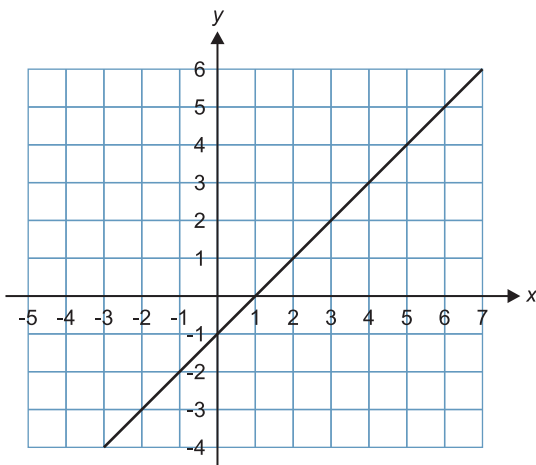


Forskrift: $f(x) = 0,5x + 2$

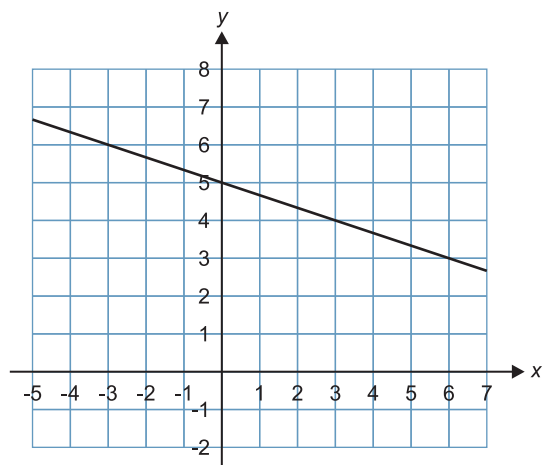
$f(6,2) = 0,5 \cdot 6,2 + 2 = 5,1$



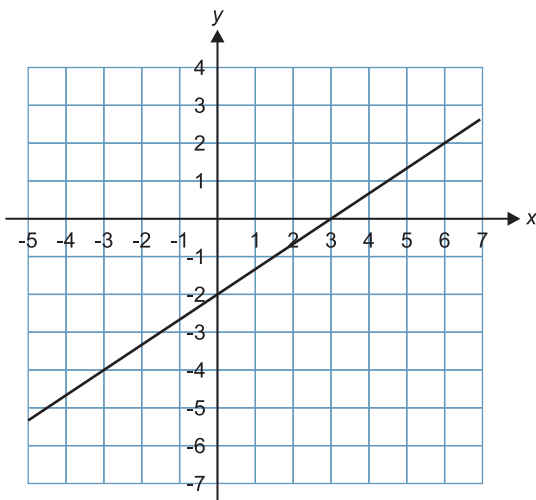
$f(2) = \boxed{}$ Får du det samme som på side 3?



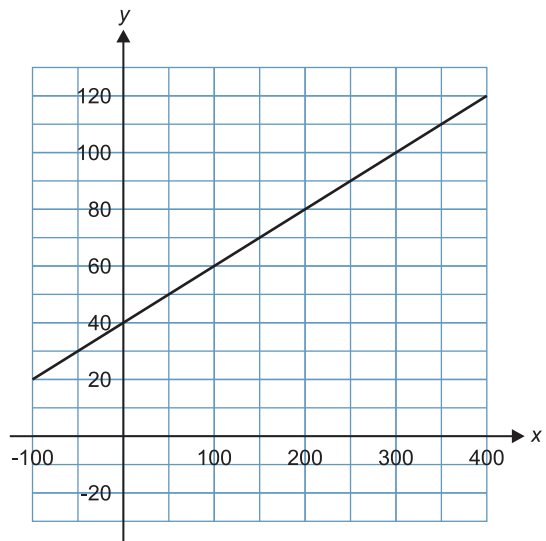
$f(2,4) = \boxed{}$



$f(-2) = \boxed{}$

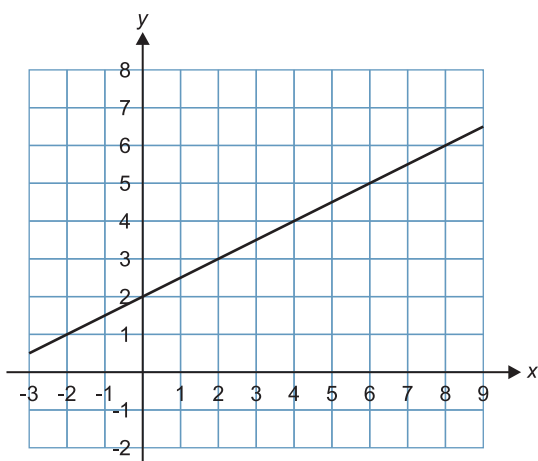


$f(2,4) = \boxed{}$



$f(135) = \boxed{}$

Løs ligninger ved beregning (brug forskrift)



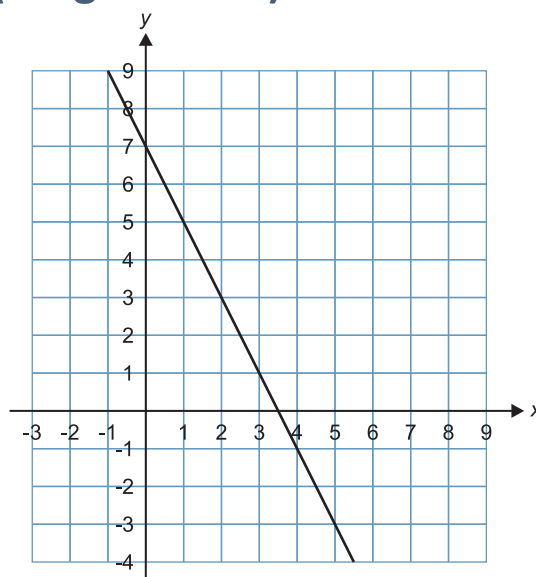
Forskrift: $f(x) = 0,5x + 2$

$$f(x) = 3,2 \Leftrightarrow$$

$$0,5x + 2 = 3,2 \Leftrightarrow$$

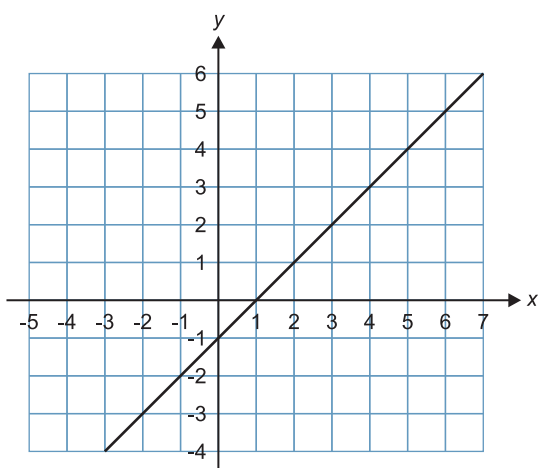
$$0,5x = 1,2 \Leftrightarrow$$

$$x = 1,2/0,5 = 2,4$$

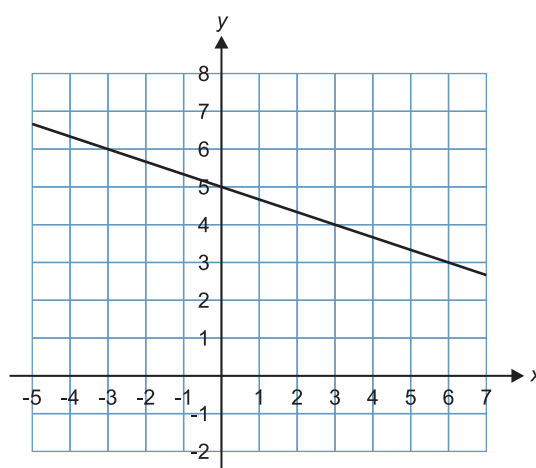


$$f(x) = 4 \Leftrightarrow x = \boxed{}$$

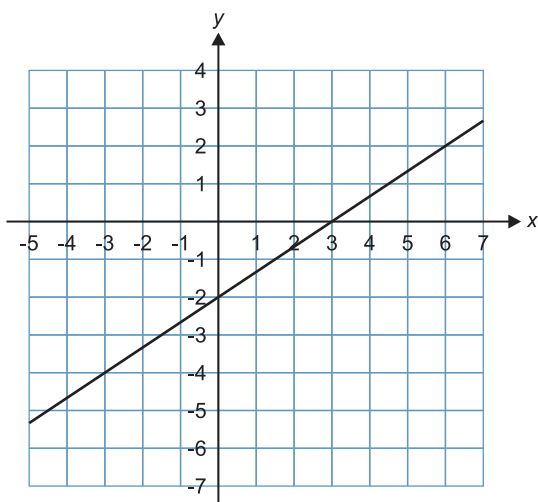
Får du det samme som på side 4?



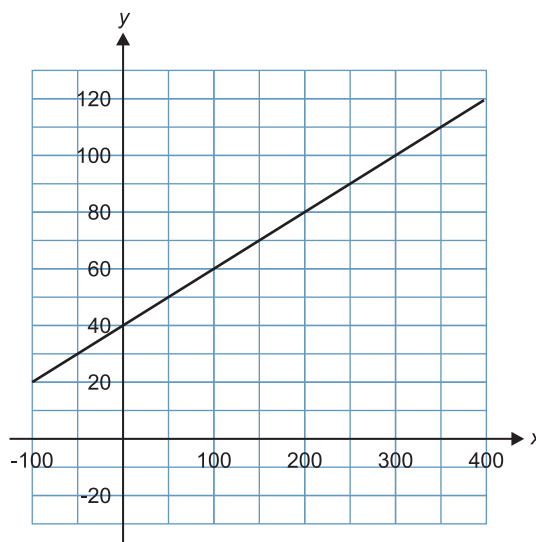
$$f(x) = -1 \Leftrightarrow x = \boxed{}$$



$$f(x) = 3,5 \Leftrightarrow x = \boxed{}$$

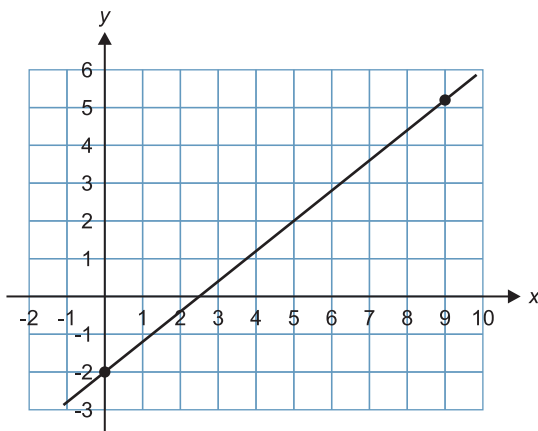


$$f(x) = 3 \Leftrightarrow x = \boxed{}$$



$$f(x) = 83 \Leftrightarrow x = \boxed{}$$

Tegne grafen for en lineær funktion ud fra forskriften

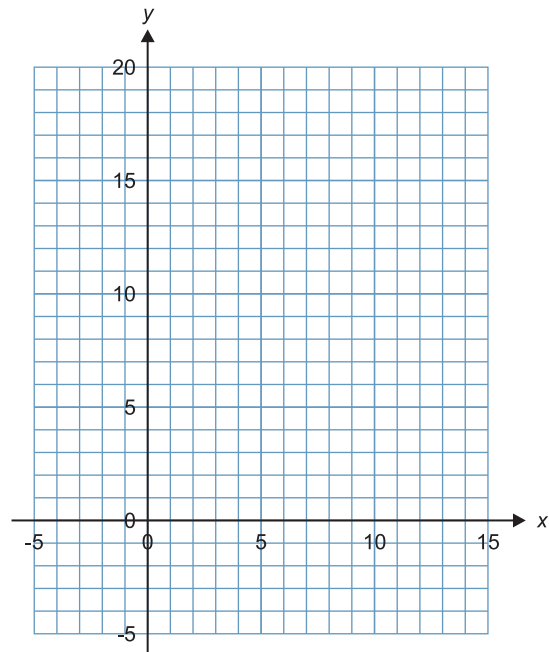


Forskrift: $f(x) = 0,8x - 2$

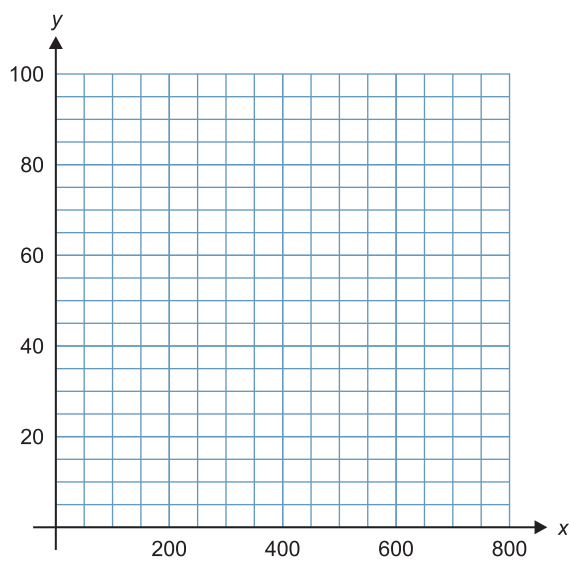
Da grafen er en linje er det nok at udregne to støttepunkter på grafen:

$$f(0) = 0,8 \cdot 0 - 2 = -2 \quad \text{Punkt: } (0; -2)$$

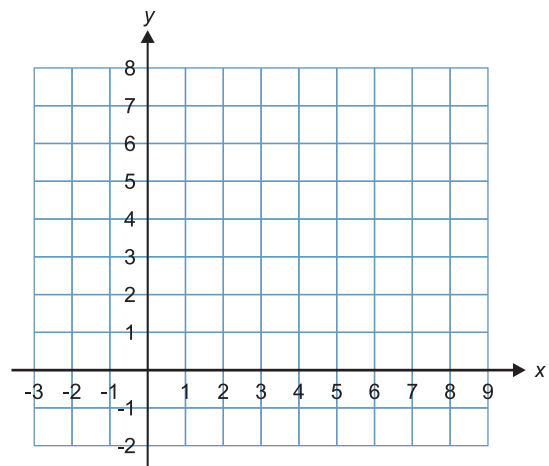
$$f(9) = 0,8 \cdot 9 - 2 = 5,2 \quad \text{Punkt: } (9; 5,2)$$



Tegn grafen for $f(x) = 0,5x + 2$



Tegn grafen for $f(x) = 0,10x + 15$



Tegn grafen for $f(x) = -0,5x + 6,5$