10) Find the domain of $f(x) = \dfrac{1}{x-3}$

$\{x \mid x \neq 3\}$

11) If $h(x) = 3x^2 - 2x$ find

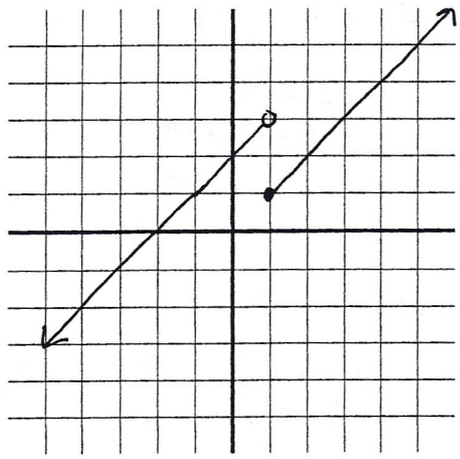
a) h(-2) $= 3(-2)^2 - 2(-2) = 3 \cdot 4 + 4 = 12 + 4 = 16$

b) h(3) $= 3 \cdot 3^2 - 2 \cdot 3 = 27 - 6 = 21$

12) Graph $f(x) = \begin{cases} x+2 & \text{if } x < 1 \\ x & \text{if } x \geq 1 \end{cases}$

$y = x + 2$
slope 1
y-intercept 2

$y = x$
slope 1
y-int. 0



13) Graph $g(x) = |x + 2|$