

4.2 # 1, 2, 3

4.3 # 1

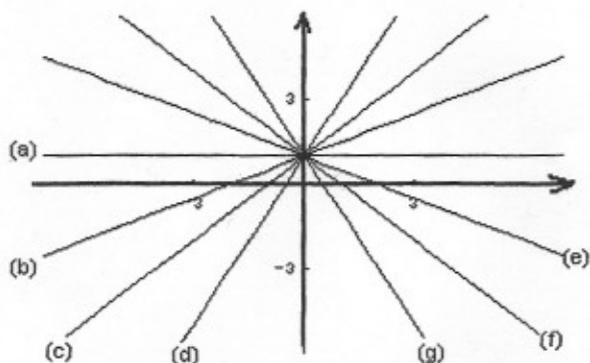
Problem 1.

- (a) A $(0, f(0))$; B $(b, f(b))$; C $(c, f(c))$; D $(d, f(d))$; E $(e, f(e))$
- (b) 0
- (c) $y = f(b)$ (or $y = f(d)$)
- (d) $f(b)$
- (e) $d - b$
- (f) $\frac{f(c) - f(0)}{c}$
- (g) $y = \left(\frac{f(c) - f(0)}{c}\right)x + f(0)$
- (h) $x = d$
- (i) Undefined, as the line \mathcal{L}_3 is vertical.

Problem 2.

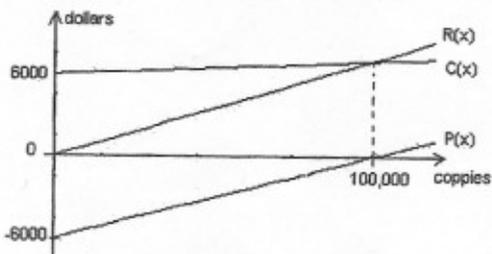
- (a) $\frac{2}{5}$
- (b) 3
- (c) No slope. Vertical line $x = \sqrt{2}$
- (d) 0 (Horizontal line)

Problem 3.



Problem 1.

- (a) $R(x) = 0.07x$
- (b) $C(x) = 6000 + 0.01x$
- (c) $P(x) = R(x) - C(x) = 0.06x - 6000$
- (d) $P(x) = 0.06x - 6000 = 0 \Rightarrow x = 100,000$ copies must be made to break even.
- (e)



(f) $A(x) = \frac{C(x)}{x} = \frac{6000}{x} + 0.01$

(g)

x	0	1	10	100	1000	10000
$A(x)$	undefined	6000.01	600.01	60.01	6.01	0.61

