

Lemay's Linear Review
Key

- (1) Yes degree 1
- (2) No degree 2
- (3) always increasing + slope
- (4) always decreasing - slope

(5) slope = -3

PT slope $y - 5 = -3(x - 7)$
or

$$y - 17 = -3(x - 3)$$

Slope Int $y = -3x + 26$

Std Form $3x + y = 26$

(5) slope = $-\frac{5}{3}$

PT slope $y = -\frac{5}{3}(x - 6)$
or

$$y - 10 = -\frac{5}{3}x$$

Std Form $5x + 3y = 30$

(9) Slope int

$$y = 2x - 2$$

PT Slope

$$y - 0 = 2(x - 1)$$

or $y + 2 = 2x$

using other pts on line
OK.

Std form

$$2x - y = 2$$

(10)

~~$$\frac{-2 - 18}{0 + 1} = -20 = -5$$~~

~~$$\frac{-10}{0} = -5$$~~

~~$$\frac{-52 + 12}{10 - 2} = \frac{-40}{8} = -5$$~~

yes.
(10) Slope = -5

Slope int $y = -5x - 2$

PT Slope
one answer using (-4, 18)

$$y - 18 = -5(x + 4)$$

Std form

$$5x + y = -2$$

⑪ NOT linear

⑫ $P(n) = -150000n + 4,000,000$

⑬ Parallel

⑭ neither.

⑮ $(-9, 0)$ $(0, -7)$

⑯ $(\frac{1}{2}, 0)$ $(0, -1)$

⑰ Parallel.

⑱ Perpendicular

⑲ easiest is pt slope $y - 20 = 5(x - 5)$

if you must

Slope Int

$$y = 5x - 5$$

ms

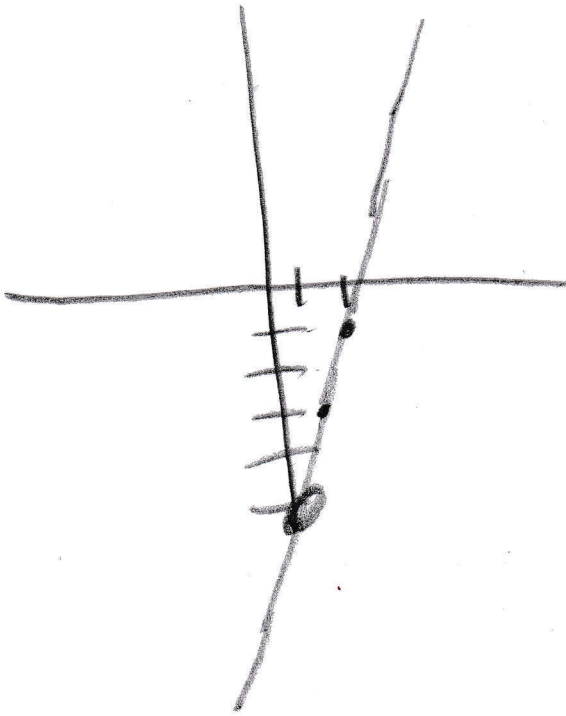


(20) $y = -\frac{1}{2}x + 2$

Std form

$$x + 2y = 4$$

(21)



(24) SKIP 24 for today

(25) $(0, 55000)$ and $(2, 76000)$

$$P(T) = 10500T + 55000$$

$$P(6) = 118,000$$

$$20) C(T) = -50T + \square + 1$$

$$(4, 875)$$

$$y - 875 = -50(T - 4)$$

$$y - 875 = -50T + 200$$

$$C(T) = -50T + 1075$$

$$C(T) = 0$$

$$0 = -50T + 1075$$

$$-1075 = -50T$$

$$21.5 = T$$

During

2004

+ 21.5

2025.5

During 2025