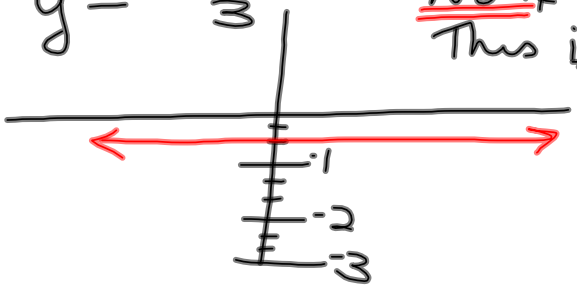
Questions 4-1

30.) $y = -\frac{2}{3}$



No x then no slope
This is the y intercept

Horizontal

58. per / each minute = slope

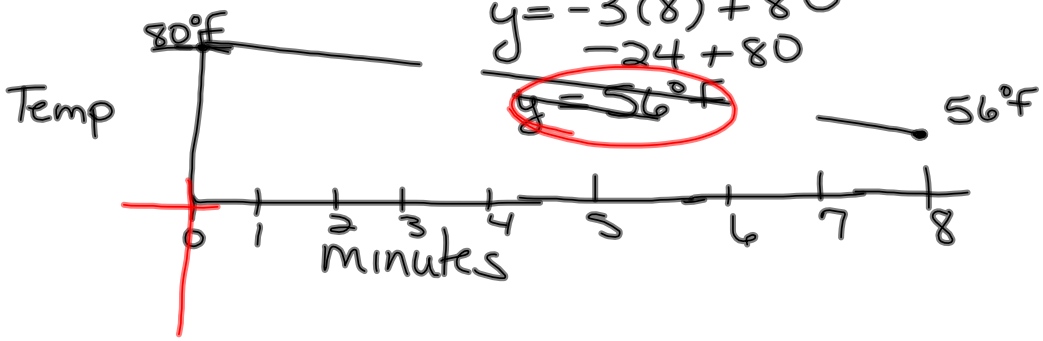
steady decrease

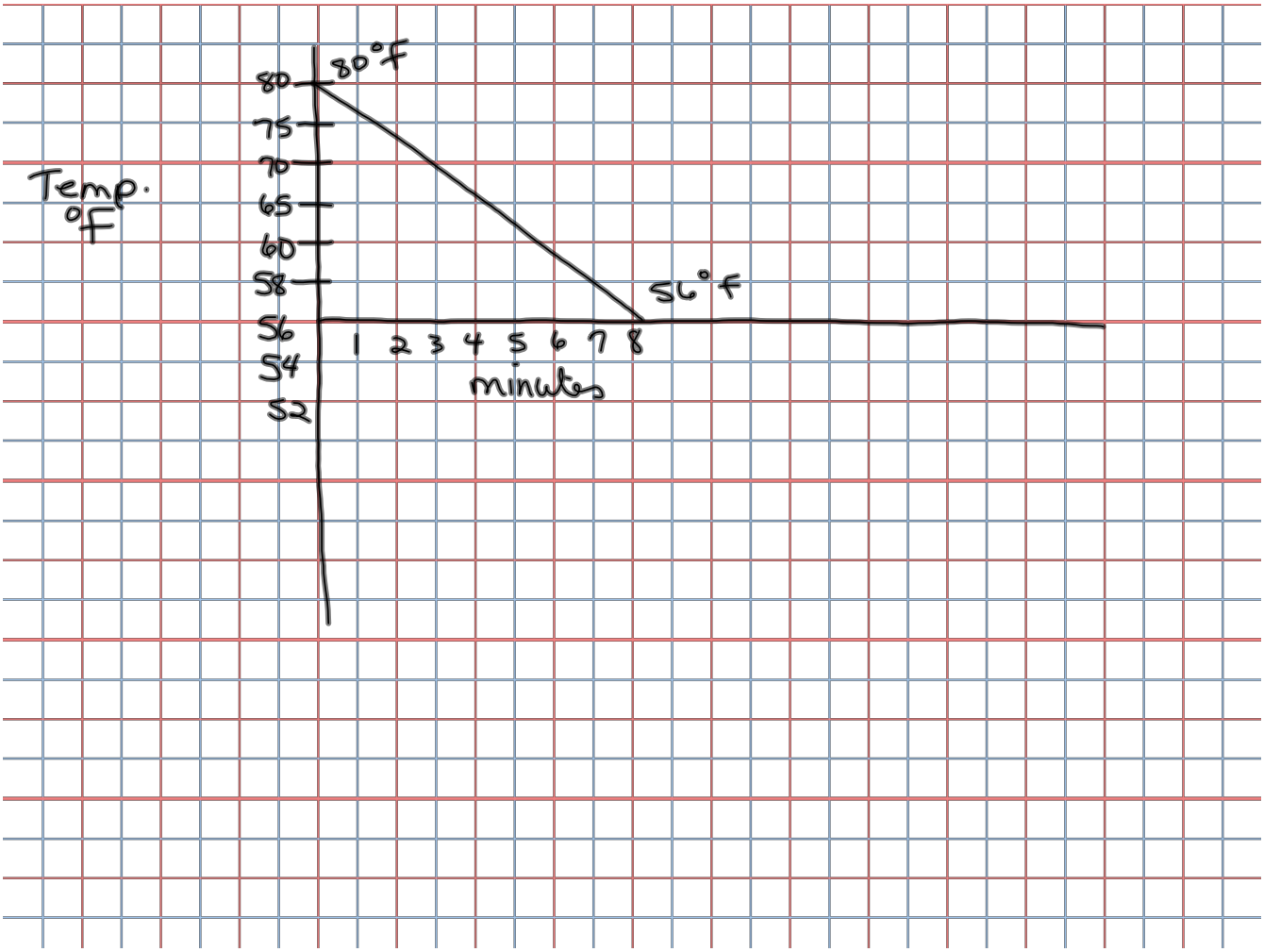
$y = -3x + 80$ −3 dropped by 3°

$y = -3(8) + 80$

$y = -24 + 80$

$y = 56°F$




Temp. °F
80
75
70
65
60
58
56
54
52
80°f
56°f
1 2 3 4 5 6 7 8
minutes

60.) y intercept is 500,000

+33,388 per yr. a.) $C = 33,388t + 500,000$

+33,388 x

d.) $3,000,000 = 33,388x + 500,000$

b) circulation increased 33,388 per yr.

c.) circulation the first yr.

2

$$3x + 8y = 32$$
$$-3x \qquad\qquad -3x$$
$$\frac{8}{8}y = -\frac{3}{8}x + \frac{32}{8}$$
$$y = -\frac{3}{8}x + 4$$

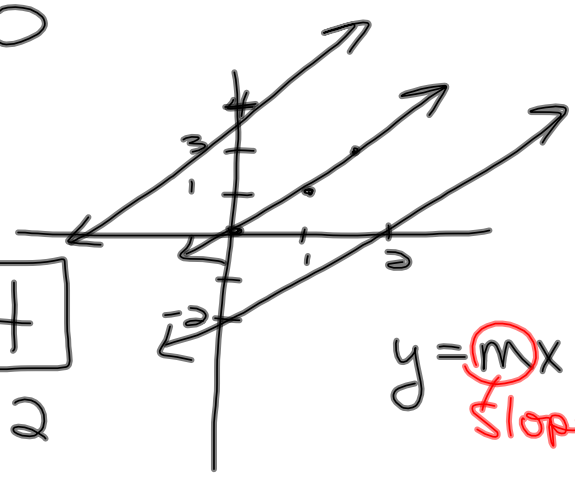
$y = x + 0$

$y = x$

$y = 1x$

$\boxed{y = 1x + 4}$

$y = 1x - 2$



$y = mx + b$

slope

y intercept

$y = \left(\frac{1}{3}\right)x$ 1 divided by 3

$y = x$

$y = 2x$

$y = x$

$y = -x$

$y = -3x$

$y = -\frac{1}{2}x$

16.) $f(x) = x^2 + 3$ $\quad c = 3$

$y = 1x^2 + 3$

$y = (1x + 3)^2$