20 - 75 → A
63 - 69 → B
54 - 62 → C
48 - 53 → D
47 ↓ → F

```
                    69.75
75*.84
                      63
75*.72
                      54
75*.64
                      48
```

12.

$y = mx + b$

y-int 1

$m = \dfrac{-2}{3}$

$y = \dfrac{-2}{3}x + 1$

13.
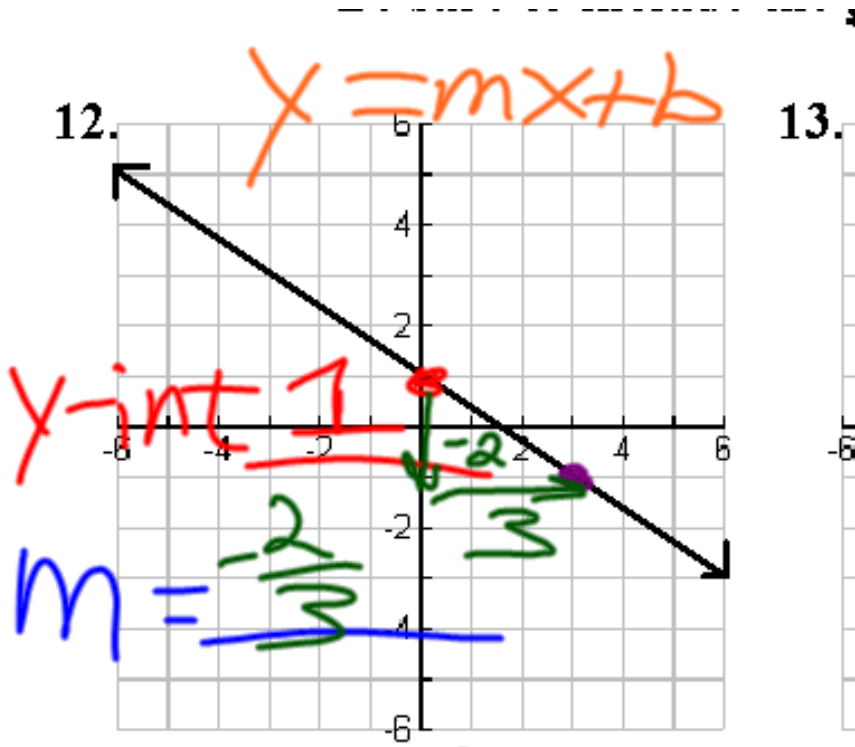
ure to include the **generic equation** with each example

$$y - y_1 = m(x - x_1)$$

22. $y = -\dfrac{1}{3}x - 2$, $(-3, -3)$ $m \parallel -\dfrac{1}{3}$

$$x + 3 = -\dfrac{1}{3}(x + 3)$$

$$x + 3 = -\dfrac{1}{3}x - 1$$

$$-3 \qquad\qquad -3$$

$$x = -\dfrac{1}{3}x - 4$$

f the line that is parallel to the given line and passes throug

through the given point. Show <u>ALL</u> work. Be sure to inclu
example.

$m \perp$ to 5 ...

$x - x_1 = m(x - x_1)$

25. $y = 5x + 1$, $(2,1)$ so... $m = -\dfrac{1}{5}$

26. $y = -$

$y - 1 = -\dfrac{1}{5}(x - 2)$

$y - 1 = -\dfrac{1}{5}x + \dfrac{2}{5}$

$+\dfrac{5}{5}$ $\qquad +\dfrac{5}{5}$ $\dfrac{5}{5}$

$y = -\dfrac{1}{5}x + \dfrac{2}{5}$

...tion of the line that is **parallel** to the given line and passes through...

sure to include the **generic equation** with each example.

$$y - y_1 = m(x - x_1)$$

$$m \parallel \text{ to } \tfrac{1}{5}$$

24. $y = \dfrac{1}{5}x + 3$, $(4, 2)$

$$y - 2 = \tfrac{1}{5}(x - 4)$$

$$5\left(y - 2\right) = \left(\tfrac{1}{5}x - \tfrac{4}{5}\right)5$$

$$5y - 10 = 1x - 4$$

$$-1x \qquad +10 \quad -1x \qquad +10$$

$$-1x + 5y = 6$$

Be sure to include the <u>generic</u>

$$y - y_1 = m(x - x_1)$$

19. $(-6, 4), \quad m = 0$

$$y - 4 = 0(x - 6)$$

$$y - 4 = 0$$
$$ +4 \quad +4$$
$$x = 4$$

slope. Show <u>ALL</u> work. Be sure

$$x - y_1 = m(x - x_1)$$

15. $(7, 7)$, $m = -2$

$$x - 7 = -2(x - 7)$$

...of the line that is **perpendicular** to the given line and passes

work. Be sure to include the **generic equation** with each

$$y - x_1 = m(x - x_1) \quad m \perp \text{ to } \frac{1}{7} = -7$$

28. $y = \dfrac{1}{7}x, \quad (2, -1)$

$$x - -1 = -7(x - 2)$$
$$x + 1 = -7x + 14$$
$$+7x \quad -1 \quad +7x \quad -1$$
$$\overline{7x + y = 13}$$

equation with each example.

$$y - y_1 = m(x - x_1)$$

20. $(1, -4)$, $m = -4$

$$x - {}^-4 = {}^-4(x - 1)$$
$$x + 4 = {}^-4x + 4$$
$$\underline{\quad {}^-4 \qquad\qquad {}^-4 \quad}$$
$$y = {}^-4x$$

sses through the given point and has the

ic equation with each example.

$$y - y = m(x - x_1)$$

20. $(1, -4)$, $m = -4$

$$x - {}^-4 = {}^-4(x - 1)$$
$$x + 4 = {}^-4x + 4$$
$$\underline{{}^-4{}^-4}$$
$$\underline{\underline{y = {}^-4x}}$$

parallel to the given line and passes throug

through the given point. Show ALL worl

example.

$m \perp$ to $^-4$ so...

$y = mx + b$

27. $y = -4x + 5$, $(0,5)$ $m = \frac{1}{4}$

$4(y) = (\frac{1}{4}x + 5)4$

$4y = 1x + 20$

$-1x \qquad -1x$

$-1x + 4y = 20$