Equations for Lines:

- Slope-Intercept Form y = mx + b
- Point-Slope Form $y y_1 = m(x x_1)$
- Standard Form Ax + By = C
- Horizontal Lines y = #
- Vertical Lines x = #







m=1.5=11/2=3/2 y = 6x - 7 m = 6b = -71. y = 1.5x + 8 $24x - 4y = 28 \quad m =$ $y = \frac{28 - 24x}{4}$ Slopes are opposite m = 6 $b = \frac{28}{-7} = -7$ reciprocals Neither Slopes and y-int are the same these are the same line.

(1)(-1) = -1since the product of the slopes

is -1 they must be opposite

reciprocals.

y = x + 3 m = 1 **4.** y = -8x + 3 m = -8 y = -8x + 3 m = -8 y = -x - 5 m = -1 16x + 2y = 11 m y = 1 $y = \frac{11 - 16 \times 10^{-5}}{2}$ $y = \frac{11 - 16 \times 10^{-5}}{2}$ Slopes are the same but y-int are different.



