

Curricular Competencies:
A2 I can explore, analyze and apply mathematical ideas
B4 I can solve problems with persistence and a positive attitude



Review ...

Find a common denominator:

$$\frac{1}{2}, \frac{4}{7} \quad 14 \quad \frac{1}{3}, \frac{2}{5}, \frac{3}{10} \quad 30$$

Simplify:

$$(-3) + 5 - (-6) + (+4) - 10$$

2

$$-2(1 - 8 + 4) - (6 + 7 - 9)$$

$$-2(-3) - 4$$

2

$$4x - (-2x) - 5 + 5x - 8$$

$$11x - 13$$

$$5y - (-3) + (5y - 6) - (-2y)$$

$$5y - (-3) - 5y + 6 - (-2y)$$

$$2y + 9$$

$$5(2x - 1)$$

$$10x - 5$$

$$3(2x - 1) - 4(-3x + 1)$$

$$6x - 3 + 12x - 4$$

$$18x - 7$$

Evaluate

$$3xy - 4y + 6x \quad x=4 \quad y=-5$$

$$3(4)(-5) - 4(-5) + 6(4)$$

$$-60 + 20 + 24$$

$$-16$$

$$\frac{2x + 1}{3} - \frac{3x + 4}{2} \quad x=4$$

$$\frac{2(4) + 1}{3} - \frac{3(4) + 4}{2}$$

$$3 - 8$$

$$-5$$

Solve for y \rightarrow get y by itself

$$2x + y = 5$$

$$-2x \quad -2x$$

$$y = -2x + 5$$

$$3x - y = 1$$

$$-3x \quad -3x$$

$$(-y = -3x + 1) \quad (-1)$$

$$y = 3x - 1$$

*A must be positive

Rewrite to $Ax + By = C$ where A, B, C are

integers

$$y = -\frac{2}{5}x + 6$$

$$+\frac{2}{5}x \quad +\frac{2}{5}x$$

$$\left(\frac{2}{5}x + y = 6\right) \times (5)$$

$$2x + 5y = 30$$

$$y = \frac{1}{3}x - \frac{3}{4}$$

$$-\frac{1}{3}x \quad -\frac{1}{3}x$$

$$\left(-\frac{1}{3}x + y = -\frac{3}{4}\right) \times (12)$$

$$(-4x + 12y = -9) \times (-1)$$

$$4x - 12y = 9$$

Assignment: worksheet