Preparedness Survey

/36

Part A: Number Sense and Algebra. (9 marks)

1. Evaluate:

a.
$$-4 + 3 + 9 - 5$$

a.
$$-4 + 3 + 9 - 5$$
 c. $-4(3-8) + 6 \div (-2)$ e. $\frac{-7}{5} - 2 + \frac{1}{3}$

e.
$$\frac{-7}{5} - 2 + \frac{1}{3}$$

b.
$$0.234 + 5 - (-1.47)$$
 d. $-2\frac{1}{3} \times \frac{5}{8} \div \frac{7}{6}$

d.
$$-2\frac{1}{3} \times \frac{5}{8} \div \frac{7}{6}$$

- 2. To print a school newspaper, it costs \$0.19 a paper for the first 100 papers printed, \$0.15 each for the next 200 papers and \$0.085 for each paper after that.
 - a. What is the cost of printing 940 papers?
 - b. What should be the selling price of each newspaper in order for the school to earn a 70% profit? (Round your answer to the nearest cent and assume all papers will be sold)

Part B: Operating with Exponents. (9 marks)

1. Evaluate:

b.
$$(-3)^3$$
 c. $(\sqrt{12})^2$

2. Simplify:

a.
$$(x)^7 (x)^5$$

C.
$$\frac{a^{10}}{a^4}$$

e.
$$(m^3)^5$$

b.
$$(3x^8)(2x^3)$$

d.
$$(-5x^5)^2$$

d.
$$(-5x^5)^2$$
 f. $\frac{24y^6}{-4y^2}$

1. Simplify:

a.
$$3x - 12x + 15x$$

a.
$$3x - 12x + 15x$$
 b. $(4x^2 - 2y) - (9x^2 + 6y)$ c. $3x - 2(4x - 5y)$

c.
$$3x - 2(4x - 5y)$$

2. Solve:

a.
$$3x - 14 = 1$$

a.
$$3x-14=1$$
 c. $3(y+2)=y-4$

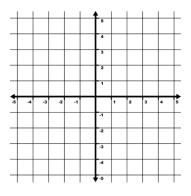
e.
$$\frac{x}{2} + \frac{x}{3} = 8$$

b.
$$4 = \frac{3}{2}x - 8$$

b.
$$4 = \frac{3}{2}x - 8$$
 d. $\frac{2x}{3} - 4 = 5 + \frac{x}{4}$

Part D: Analytic Geometry. (7 marks)

1. Sketch a line with a slope of -2/3 and y-intercept of -3. Write the equation of the line.



2. Determine the x and y intercepts of the equation 3x - 2y = 12

3. Find the equation of the line passing through the points A(3,-2) and B(1,4)