

Math 80
Exam 1 Review Problems

Here is a selection of problems from past Math 80 exams. It *does not* include every possible type of problem I could ask on the exam - also study your homework and past quizzes to see other types of problems.

1. Simplify as much as possible.

(a) $-|-8+5|$

(b) $-5-2^3+(-7)(-3)$

(c) $3(2p+5)-(11w-5)$

2. (a) Divide: $3\frac{3}{8} \div 2\frac{1}{4}$

(b) Add: $1\frac{1}{4} + 3\frac{5}{6}$

3. Solve each equation.

(a) $5x - 2 = 3x + 8$

(b) $\frac{2}{5}x = -2$

(c) $-2(x+3) = 4x - 6(x+1)$

(d) $\frac{1}{2}y - \frac{5}{6} = \frac{5}{2}y + \frac{2}{3}$

(e) $3x + 2(x-3) = 4(x-4) + x$

4. William has \$150 in fives and tens. If he has 19 bills total, how many of each does he have?

5. Find two consecutive *odd* integers such that four times the smaller integer added to the larger integer is 57.

6. Solve the formula $V = lwh$ for l .

7. What are the x - and y -intercepts of the graph of the equation $2x - 5y = 20$?

8. Are the lines given by the following equations parallel, perpendicular, or neither?

$$6x - 2y = 4$$

$$x + 3y = 7$$

9. Sketch the graph of the equation $y = -2x - 1$. Clearly plot at least three points, and state their coordinates.

10. Find equation of the line through the points $(-4, 1)$ and $(2, -2)$. Put the equation in slope intercept form.