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Intermediate Algebra – Practice Problems

1. Simplify

2a+5a-(6a+8)

2. Clear fractions or decimals, solve, and check

1.7t +8-1.62t=0.4t-0.32+8

3. Divide and Check

(24x^6 + 18x^4 + 8x^3) ÷ (4x^3)

4. Factor completely. If a polynomial is prime, state this

4x^2 – 25

5. Solve

x^2 + 2x – 35 =0

25y^2 + 16 = 0

2t (t+ 2) =1

6. Find the sole of the line containing each given pair of points. If the slope is undefined, state this.

(-1, 4) and (5, -8)

7. Solve using the elimination method

8s + 12t = 16,

6s + 9t = 12

8. Is it possible for the graph of a quadractic function to have only one x-intercept if the vertex is off the x-axis? Why or why not?

9. Rewrite each of the following as an equivalent logarithmic equation. Do not solve

8 1/3 = 2

10. Express as an equivalent expression that is a single logarithm.

$log\_{b}c$ - $log\_{b}d $

11. How long will it take $7600 to double if it is invested at 4.2%, compounded continuously?

12. Find the perimeter

4a +5 + 6a + 8