

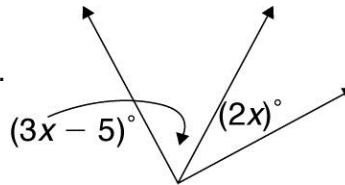
Solving Equations Review

1. If $-2(3y + 5) = -4$, find the value of $5y$.

Hint: first find the value of y from the equation!

Answer each of the following.

2. The two angles shown form a right angle (90 degrees). Write and solve an equation to find the value of x .



3. For her cellular phone service, Vera pays \$32 a month, plus \$0.75 for each minute over the allowed minutes in her plan. Vera received a bill for \$47 last month. For how many minutes did she use her phone beyond the allowed minutes?

***One of problems 4-12 has no solution and one has infinitely many solutions!**

4. $-6 = \frac{y}{5} + 4$

5. $\frac{7}{9} = 2n + \frac{1}{9}$

6. $-\frac{4}{5}x + \frac{2}{5} = \frac{2}{3}$

7. $2y + 3 = 2(y + 7) - (y + 7)$

8. $4n + 6 - 2n = 3(n + 3)$

9. $6m - 8 = 2 + 6m - 10$

10. $-v + 5 + 6v = 1 + 5v + 3$

11. $2(3b - 4) = 8b - 11$

12. $5(r - 1) = 2(r - 4) - 6$
