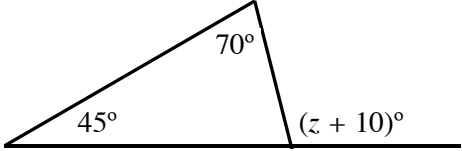


<p>1. Solve for y: $9y = 27$</p>	<p>6. Simplify: $6x^2 - 2x + 7x^2 + x$</p>
<p>2. Find the value of z.</p> 	<p>7. Solve for x: $-5x - 16 = 7x - 8$</p>
<p>Express as a single fraction using only positive exponents:</p> $\frac{14y^2x}{-2yx^2}$	<p>8. Simplify: $\frac{4x}{3} \cdot \frac{1}{7}$</p>
<p>4. Simplify: $(4a^2)(9a^5)$</p>	<p>9. Which of the following expressions is equal to 1?</p> <p>(1) $5(x)^0$ (3) $5 + x^0$</p> <p>(2) $(5x)^0$ (4) $5 - x^0$</p>
<p>5. Multiply: $(x - 2)(x + 9)$</p>	<p>10. For which value of x is the fraction $\frac{2x+2}{x^2-4}$ undefined?</p> <p>(1) -1 (3) 3</p> <p>(2) -2 (4) 4</p>

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

11. Multiply: $(x - 6)(x - 7)$

12. Simplify: $(y^3)^4$

11.

12.

13. (10 points)

Jack can paint two rooms in 3 hours. How long will it take him to paint 9 rooms?

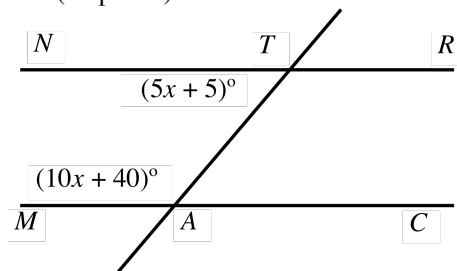
13.

14. (10 points)

Last Friday, Evelyn and Shantel ordered Chinese food. The total came to \$17.20, they gave the delivery person a \$20 bill, and then told him to keep the change. What percent tip did they give? (Round to the nearest tenth of a percent.)

14.

15. (10 points) Find the number of degrees in $\angle MAT$.



15.

16. (10 points)

Three numbers are in the ratio $1 : 3 : 6$. If the sum of the numbers is 100, find the numbers.

16.
