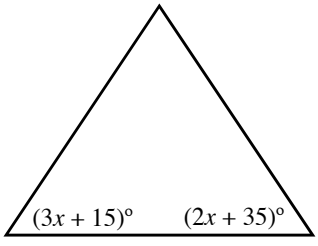
Name: _____ Period: ____ ME43 Classwork 39

1. Factor completely: $4x^2 - 4$	6. Factor completely: $x^2y + 2xy - 8y$
2. Factor completely: $2a^2 - 2b^2$	7. Factor completely: $4x^2 - 24x - 28$
3. Factor completely: $2q^2 - 8q - 10$	8. Evaluate $2p^2 - 5a$ if $a = -2$ and $p = -3$.
4. Factor completely: $4a^2 - 36$	9. If 3 times a number is increased by 12, the result is the same as twice the number increased by 24. Find the number.
5. Factor completely: $3x^2 + 18x - 48$	10. Find the value of x in the isosceles triangle below. 

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

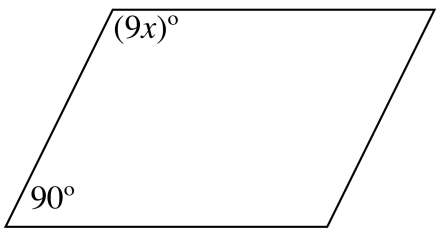
11. Multiply: $(x-10)(x-3)$

12. Factor: $c^2-14c+40$

13. What is the difference when $3x^2-5x+1$ is subtracted from x^2+x?
(1) $2x^2-6x+1$ (3) $-(4x^2-4x+1)$
(2) $-(2x^2-6x+1)$ (4) $4x^2-6x+1$

14. Which expression is undefined if $x=2$?
(1) $\frac{2}{x-2}$ (3) $\frac{x-2}{2}$
(2) $\frac{2}{x}$ (4) $(x-2)(x+2)$

15. Find the value of x in the parallelogram below.



16. Solve: $3x+3=15+9x$

17. If $n+1$ is an even integer, which expression must be an odd integer?
(1) $n-1$ (3) $2n-1$
(2) $n+3$ (4) $3n-1$

18. Simplify and write the answer using only positive exponents: $\frac{4x^2yz^4}{3zxy^2}$

19. Solve for x: $7y-2x=6x-y$

20. Solve: $-4(x+1)>-16$

11. _____

12. _____

13. _____

14. _____

15. _____

16. _____

17. _____

18. _____

19. _____

20. _____