

Name: \_\_\_\_\_

# ME43 Homework 8

1. Solve for $x$ : $7x - 6y = 20$	6. Solve: $2x - 6 \geq -2(x - 1)$
2. Solve for $r$ : $3r + 4 = s$	7. Solve for $p$ : $I = prt$
3. Solve for $x$ : $2ax + 5 = -20$	8. Subtract $-2w^2 + w - 3$ from $-w^2 + 2w - 1$ .
4. Solve: $-4x > 20$	9. Solve: $x - 7 < 9$
5. Simplify: $100x^2 + (-20x^2)$	10. Express as a single fraction: $\frac{2x}{5} + \frac{5}{7}$

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8. \_\_\_\_\_
- 9. \_\_\_\_\_
- 10. \_\_\_\_\_

<p>11. Solve for <math>y</math>: <math>5y - 2x = 3x - 2y</math></p>	<p>Which is not equivalent to <math>-3x &lt; 15</math>?</p> <p>16. (1) <math>-x &lt; 5</math>                      (3) <math>x &lt; -5</math>  (2) <math>-5 &lt; x</math>                      (4) <math>5 &gt; -x</math></p>	<p>11. _____</p> <p>12. _____</p>
<p>12. Solve for <math>d</math>: <math>\frac{4d - r}{s} = 3w</math></p>	<p>17. Solve for <math>y</math>: <math>7y - x = 2x - y</math></p>	<p>13. _____</p> <p>14. _____</p>
<p>The expression <math>(m - n) - (n - m)</math> is equivalent to</p> <p>13. (1) <math>2m - 2n</math>                      (3) <math>-2n</math>  (2) <math>2m</math>                      (4) <math>m - n</math></p>	<p>Which expression is rational?</p> <p>18. (1) <math>\pi + 3</math>                      (3) <math>\pi^2</math>  (2) <math>\pi^0</math>                      (4) <math>3.14\pi</math></p>	<p>15. _____</p> <p>16. _____</p>
<p>What is the sum of <math>3y^2 - 4y</math> and <math>-4y^2 + 5y^2 - 2</math>?</p> <p>14. (1) <math>-y^2 - y</math>                      (3) <math>-y^2 - y - 2</math>  (2) <math>4y^2 - 4y</math>                      (4) <math>4y^2 - 4y - 2</math></p>	<p>19. Solve for <math>w</math>: <math>2w + 5y^2 = 10</math></p>	<p>17. _____</p> <p>18. _____</p>
<p>15. Solve: <math>-3(x + 1) \geq -6</math></p>	<p>20. Solve: <math>-5(x - 2) + 4x = 9x</math></p>	<p>19. _____</p> <p>20. _____</p>