

Name: _____

M\$3A Homework 4

<p>1. Multiply: $(x^2 - 2)(x^2 + 3x - 20)$</p>	<p>6. Divide: $\frac{15x^4y^3 - 30y^2x^2 + 45y^5x}{-5y^2x}$</p>
<p>2. Solve: $2(b + 1) - 3b = 3(3 + 2b)$</p>	<p>7. Solve: $2(t - 3) - 17 = 13 - 3(t + 2)$</p>
<p>3. Solve: $22s - 3(5s + 4) = 16$</p>	<p>8. Solve: $\frac{5x}{2} = \frac{15}{4}$</p>
<p>4. Solve: $\frac{3x - 1}{5} = 7$</p>	<p>9. Solve: $3m - 5m - 12 = 7m - 88 - 5$</p>
<p>5. Solve: $\frac{r}{3} - \frac{r}{6} = 2$</p>	<p>Express as a single fraction: 10. $\frac{a}{b^2} - \frac{b}{a}$</p>

1. _____
2. _____
3. _____
4. _____
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6. _____
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9. _____
10. _____

11. Find the product of $5x^2$ and $-4x+3y$.	16. Solve: $1 = \frac{3r}{4} - \frac{2r}{3}$	11. _____
12. Solve: $10y - (5y + 8) = 42$	17. Solve: $\frac{3y}{2} - \frac{17}{3} = \frac{2y}{3} - \frac{3}{2}$	12. _____
13. Simplify: $(2x - 3)^2 - 4x^2$	18. Solve: $\frac{2+x}{6x} = \frac{3}{5x} + \frac{1}{30}$	13. _____
14. Solve: $\frac{5y - 30}{7} = 0$	19. Solve: $(4 - r)(6 + r) = 40 - (r^2 - 4r - 18)$	14. _____
15. Multiply: $(x - 2)(2x^2 - 4x + 1)$	20. Simplify: $(4ab - 2ba)^2$	15. _____
		16. _____
		17. _____
		18. _____
		19. _____
		20. _____