

MA 152 Exam 1 Answers Spring 2008

1. $x \leq -2$ or $x > 1$

2. $\frac{25y^{12}}{16x^8}$

3. 4.8×10^{11}

4. $\frac{a^2b^5}{3c^3}$

5. $3\sqrt{3}$

6. $a^2 - 3ab + 8b$

7. $4x^2 - 20x + 25$

8. $n + 4$

9. $(y^2 + 4)(y + 2)(y - 2)$

10. $\frac{2x(8x+1)}{x-1}$

11. $\frac{2z+w}{4}$

12. None of the above $\left(y = -\frac{1}{2}\right)$

13. The equation is an identity and is true for all values except for $x = -3$.

14. 6.5 inches

15. $0.03x + 0.04(18000 - x) = 605$