

Answers to MT Review Questions #3

1. $\sqrt{\frac{7}{2}}, \pi$

2. $\frac{2\sqrt{5}}{5}$

3. $18\sqrt{2}$

4. $\sqrt{10} + 5\sqrt{2}$

5. $\frac{7\sqrt{2} + 9}{7}$

6. $\frac{27y^{18}}{x^{15}}$

7. $x^{\frac{7}{3}}$

8. $x = \frac{8}{3}$

9. $(x+5)(x-1)$

10. $5(2x+1)(2x-1)$

11. $(4x-5y)(x+2y)$

12. $(x+2)^2(x-2)$

13. 13

14. $\frac{x-3}{x-1}, x \neq -5, -2, 1, 7$

15. $\frac{(x+3)^2}{(x-3)^2}, x \neq \pm 2, \pm 3$

16. $\frac{-x^2 + 2x + 11}{(x+2)(x+3)}, x \neq -2, -3$

17. $\frac{5x^2 - 10x - 18}{x^2 - 9}, x \neq \pm 3$

18. $x = -\frac{1}{50}$

19. $\frac{3x+7}{x}, x \neq -2, 0$