

Math 1314 College Algebra Prerequisite Review Answers

1. $1/6$

2. $17/10$

3. $x < -8.25$

4. $2/3, 3/2$

5. $5 \pm 3\sqrt{2}$

6. $-7/4$

7. $5/3, 3$

8. $x < -4$ or $x > 4$

9. 14

10. exactly one solution: $(1, -2)$

11. $\frac{3}{2}x^8$

12. $6p^3 - 13p^2 + 17p - 20$

13. $9n^2 - 12np + 4p^2$

14. $3x - 2 + \frac{2}{2x-3}$

15. $5x^2(x+2)(2x-3)$

16. $(3x-5)(x+3)(x-3)$

17. $\frac{-10x+29}{(x-3)(x+2)(x-5)}$

18. $-3x^2 \cdot y^2 \cdot \sqrt[3]{y^2}$

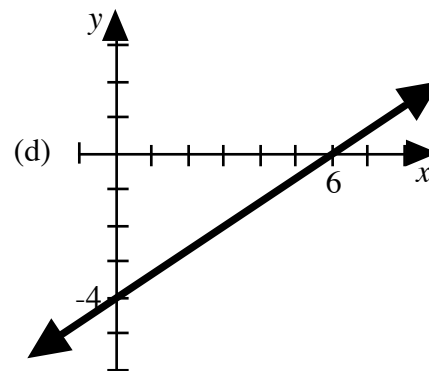
19. $5i\sqrt{2}$

20. 23

21. (a) $(6,0)$

(b) $(0,-4)$

(c) $2/3$



22. $y = -\frac{2}{3}x + \frac{5}{3}$

23. $y = \frac{5}{2}x + 19$

24. No, because the slope of the first line, $3/5$, is not the negative of the reciprocal of the slope of the second line, $5/3$.

25. $-3/4$

26. (a) 30

(b) $a^2 - 13a + 42$