Immersion Math 30 Supplement

1. Jennifer drove her car at an average speed of 24 miles per hour for 3 hours. How far did she drive?

2. A cyclist rode across a city in 6.5 hours. If the distance across the city is 35 miles, find the cyclist's speed to the nearest tenth of a mile per hour.

3. John rode his bike at an average speed of 14 miles per hour for 7 hours. How far did he ride?

4. Rosie swam across a lake in 3.5 minutes. If the distance across the lake is 240 meters, find her swimming speed to the nearest tenth of a meter per minute.

5. In which quadrant (I, II, III, or IV) is point $(-5,3)$?

6. In which quadrant (I, II, III, or IV) is point $(4,-2)$?

7. In which quadrant (I, II, III, or IV) is point $(-1,-6)$?

8. In which quadrant (I, II, III, or IV) is point $(2,1)$?

9. List the degree and coefficient of each term in the polynomial. $6x^4 - 4x^2 + 8x - 12$

10. List the degree and coefficient of each term in the polynomial. $4x^5 - 3x^3 + 5x - 4$

11. List the degree and coefficient of each term in the polynomial. $3x^7 - 4x^5 + 2x - 1$

12. List the degree and coefficient of each term in the polynomial. $8x^8 - 2x^4 + 7x - 14$

13. Find a quadratic with integer coefficients that has the given solution set. $(1,5)$

14. Find a quadratic with integer coefficients that has the given solution set. $(-2,0)$

15. Find a quadratic with integer coefficients that has the given solution set. $(3,-4)$

16. Find a quadratic with integer coefficients that has the given solution set. $(-2,7)$

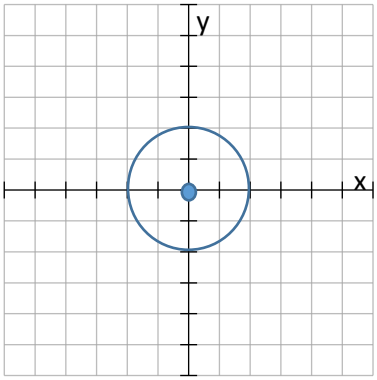
17. The sum of a reciprocal of a number and $\frac{2}{3}$ is $\frac{13}{15}$. Find the number.

18. The sum of a reciprocal of a number and $\frac{5}{8}$ is $\frac{7}{8}$. Find the number.

19. The sum of a reciprocal of a number and $\frac{1}{4}$ is $\frac{7}{12}$. Find the number.

20. The sum of a reciprocal of a number and $\frac{1}{2}$ is $\frac{5}{6}$. Find the number.

21. Find the equation of the circle in the graph below.



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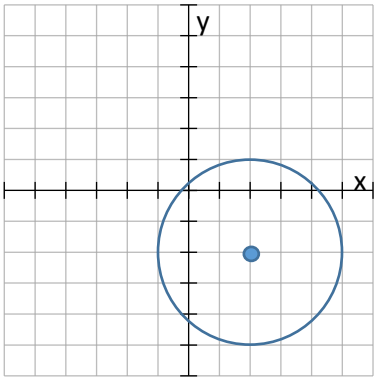
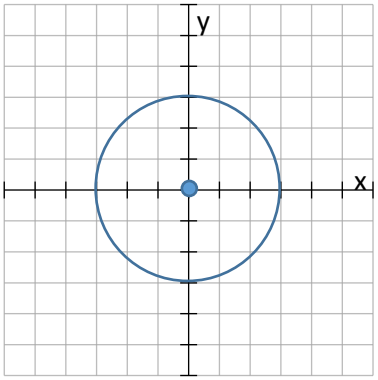


23. Find the equation of the circle in the graph below.



24. Find the equation of the circle in the graph below.