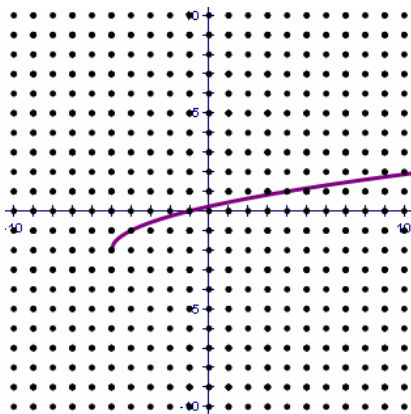


1. What are the domain and range of the function $y = -\sqrt{2x-3} + 4$?

2. Solve for x : $\sqrt{6x-9} = x$

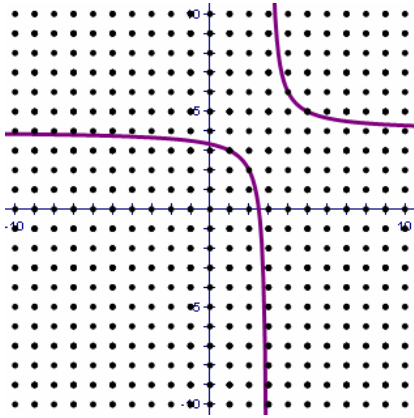
3. Solve for x : $\sqrt{15x+6} + 1 = 2x$

4. What function is graphed below?



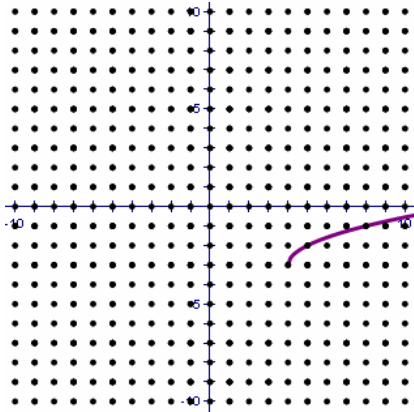
5. Solve for x : $\frac{x^2 - 7x - 18}{x + 1} \cdot \frac{4x + 4}{3x - 27} = 6$

6. Name the function that is graphed below, and identify the asymptotes:



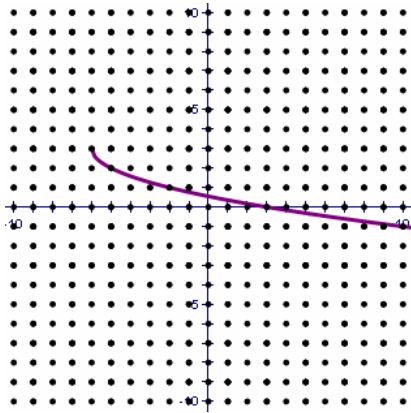
7. Solve for x : $\sqrt{x+1} + 2 = 4$

8. Name the function that is graphed below, and tell the domain and range:



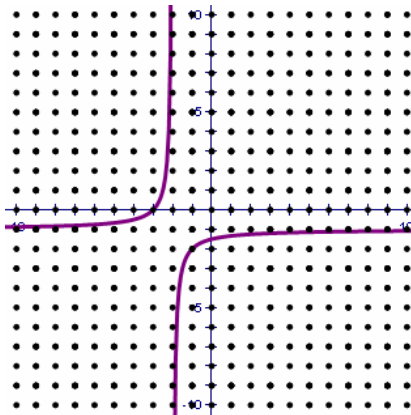
9. Solve for x : $\frac{x^2 + 9x - 22}{x^2 - 8x + 15} \cdot \frac{x^2 - 3x - 10}{x^2 + 13x + 22} = 1.25$

10. Name the function that is graphed below, and tell the domain and range:



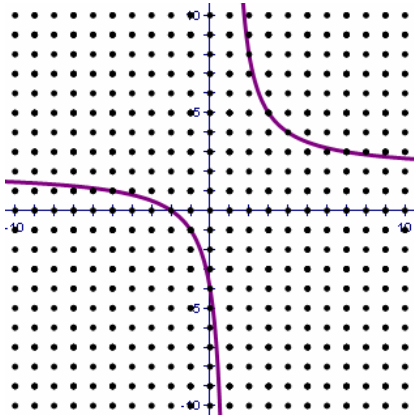
11. Solve for x : $\frac{1}{x-1} - \frac{1}{x+1} = \frac{1}{12}$

12. Name the function that is graphed below, and identify the asymptotes:



13. Solve for x : $\sqrt{3x+4} + 7 = x-1$

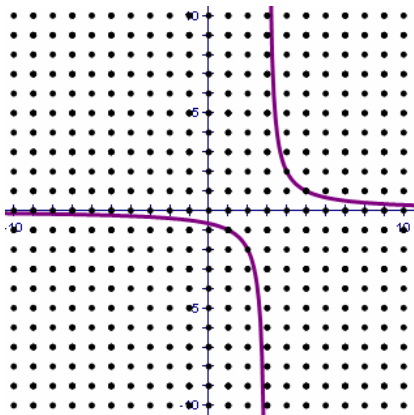
14. Name the function that is graphed below, and identify the asymptotes:



15. Solve for x : $7 + \sqrt{4x+8} = 9$

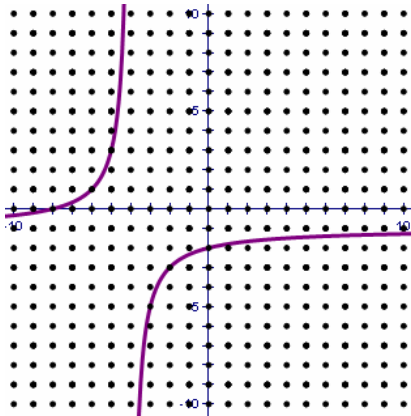
16. Solve for x : $4 + \frac{x+2}{x} = \frac{12x+3}{7}$

17. Name the function that is graphed below, and identify the asymptotes:



18. Solve for x : $\frac{1}{x} + \frac{1}{3} = \frac{x+3}{6}$

19. Name the function that is graphed below, and identify the asymptotes:



20. Solve for x : $\sqrt{x^2 + 28} - 11 = x + 3$

21. Solve for x : $\frac{3x+2}{x-2} - \frac{20}{x} = 3$