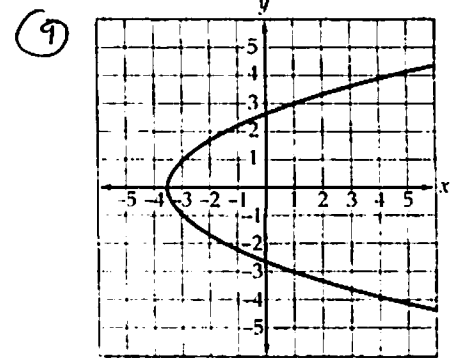
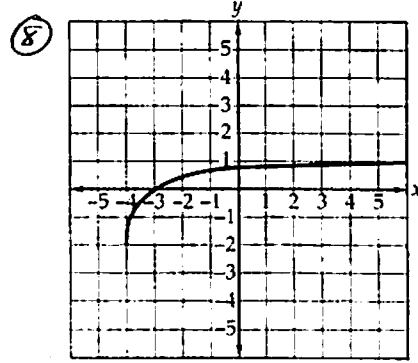
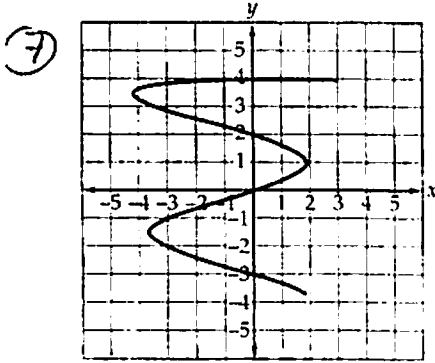
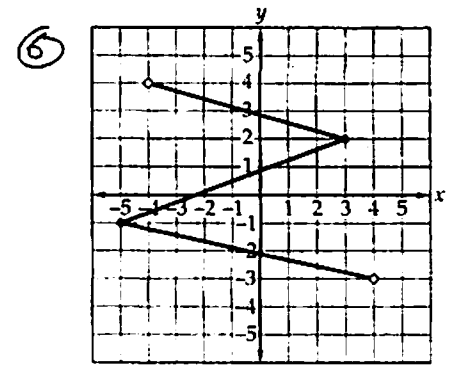
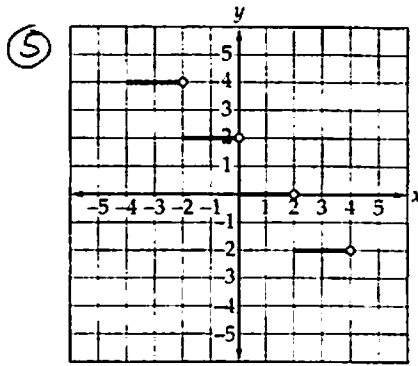
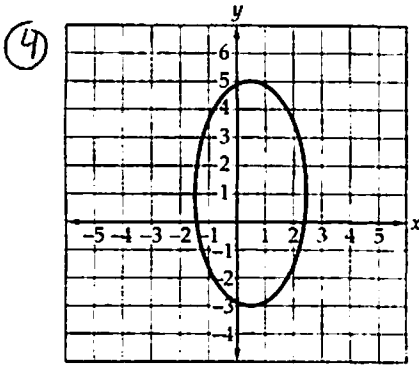
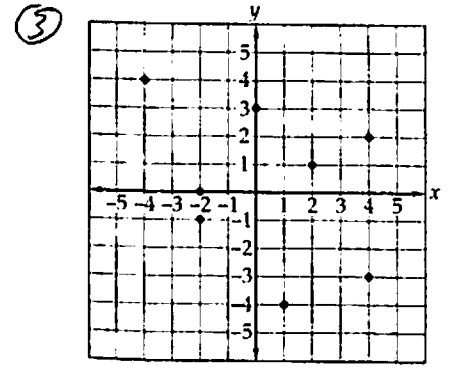
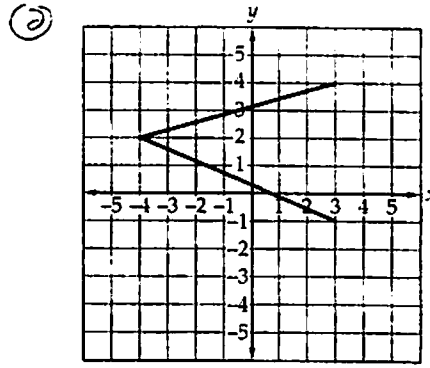
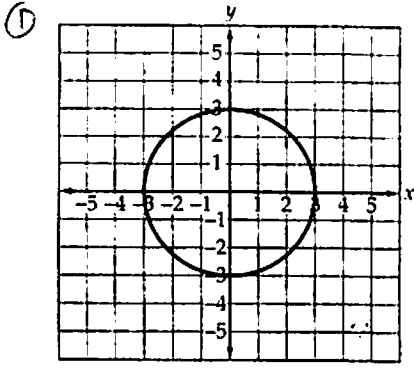


Name _____

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Determine whether each relation is a function.

Write "yes" if it is a function. Write "no" if it is not a function.



- ⑩ Which expression represents the sum of $\frac{1}{\sqrt{3}}$ and $\frac{1}{\sqrt{2}}$?
- (1) $\frac{2\sqrt{3} + 3\sqrt{2}}{6}$ (2) $\frac{2}{\sqrt{5}}$ (3) $\frac{\sqrt{3} + \sqrt{2}}{3}$ (4) $\frac{\sqrt{3} + \sqrt{2}}{2}$

- ⑪ If the sum of the roots of $x^2 + 3x - 5 = 0$ is added to the product of its roots, the result is
- (1) 15 (2) -15 (3) -2 (4) -8

- ⑫ Expressed in simplest form, $i^{16} + i^6 - 2i^5 + i^{13}$ is equivalent to
- (1) 1 (2) -1 (3) i (4) -i

- ⑬ Express the roots of $9x^2 + 40 = 36x$ in simplest $a + bi$ form.

⑭ Simplify: $\frac{2x^2 - 9x + 9}{2x^3 - 3x^2} \div \frac{3x^2 - 11x + 6}{6 - 5x - 6x^2}$

- ⑮ Which equation has imaginary roots?
- (1) $x^2 - 1 = 0$ (2) $x^2 - 2 = 0$ (3) $x^2 + x + 1 = 0$ (4) $x^2 - x - 1 = 0$

⑯ Cody and Efrim were competing in a road rally. If Cody traveled $\frac{x^2 - 4}{3x - 6}$ in the first hour and Efrim traveled $\frac{2x^2 + 3x - 2}{8x - 4}$, who traveled farther the first hour of the race? Explain your reasoning.

⑰ Is the relation shown below a function?

