Name: $\qquad$

## MCR3U - WS - Transformations of Functions - Horizontal Reflections \& Scaling

1. $y=f(x)$ is shown. Graph $\mathrm{y}=f(-\mathrm{x})$.

2. $y=f(x)$ is shown. Graph $\mathrm{y}=f(2 \mathrm{x})$.

3. $y=f(x)$ is shown. Graph $\mathrm{y}=f\left(\frac{1}{2} \mathrm{x}\right)$.

4. $y=f(x)$ is shown. Graph $\mathrm{y}=f\left(\frac{1}{4} \mathrm{x}\right)$.

5. $y=f(x)$ is shown. Graph $\mathrm{y}=f\left(-\frac{1}{2} \mathrm{x}\right)$.

6. $y=f(x)$ is shown. Graph $\mathrm{y}=f(3 \mathrm{x})$.

7. $y=f(x)$ is shown. Graph $\mathrm{y}=f\left(-\frac{1}{3} \mathrm{x}\right)$.

8. $y=f(x)$ is shown. Graph $\mathrm{y}=f\left(\frac{1}{4} \mathrm{x}\right)$.

9. $y=f(x)$ is shown. Graph $\mathrm{y}=f(3 \mathrm{x})$.

10. $y=f(x)$ is shown. Graph $\mathrm{y}=f(2 \mathrm{x})$.

11. $y=f(x)$ is shown. Graph $\mathrm{y}=f\left(-\frac{1}{2} \mathrm{x}\right)$.

12. $y=f(x)$ is shown. Graph $\mathrm{y}=f(4 \mathrm{x})$.


MCR3U - WS - Transformations of Functions - Horizontal Reflections \& Scaling
Answer Section

1. ANS:


PTS: 1
2. ANS:


PTS: 1
3. ANS:


PTS: 1
4. ANS:


PTS: 1
5. ANS:


PTS: 1
6. ANS:


PTS: 1
7. ANS:


PTS: 1
8. ANS:


PTS: 1
9. ANS:


PTS: 1
10. ANS:


PTS: 1
11. ANS:


PTS: 1
12. ANS:


PTS: 1

