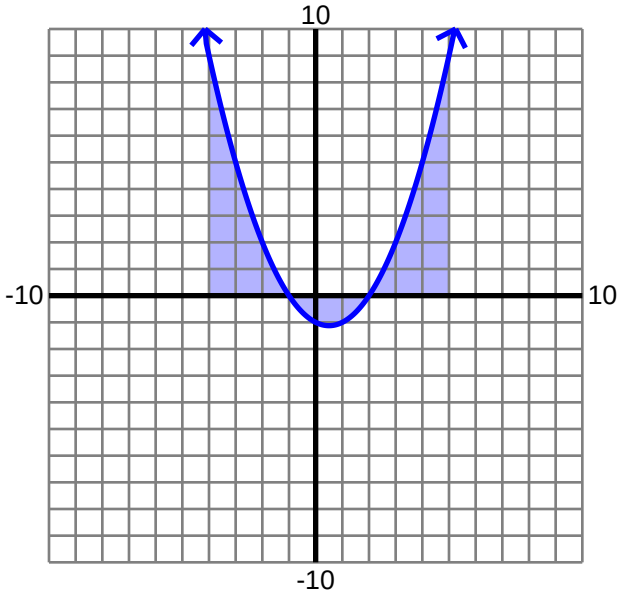
Name : _____ Score : _____

Teacher : _____ Date : _____

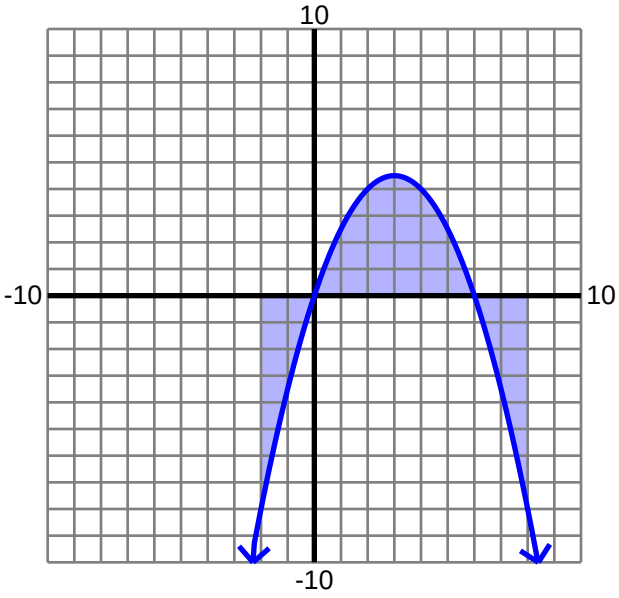
Area Under a Curve

Find the area under the curve on the given interval. Round to two decimals if necessary.

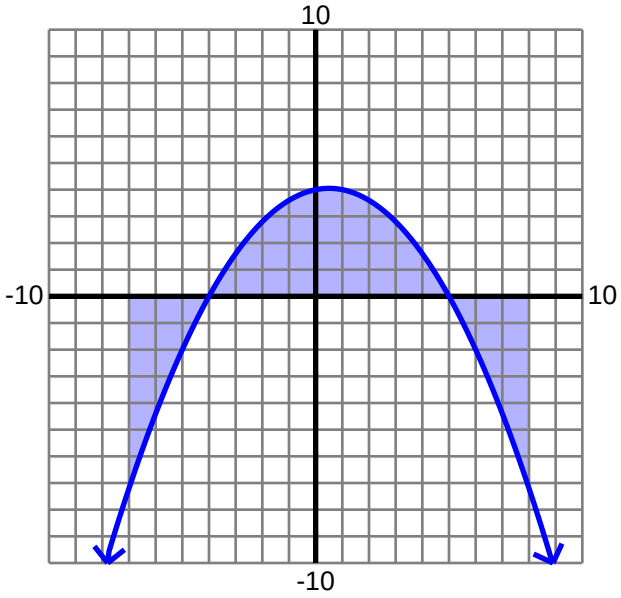
1) $y = \frac{1}{2}x^2 - \frac{1}{2}x - 1$; [-4, 5]



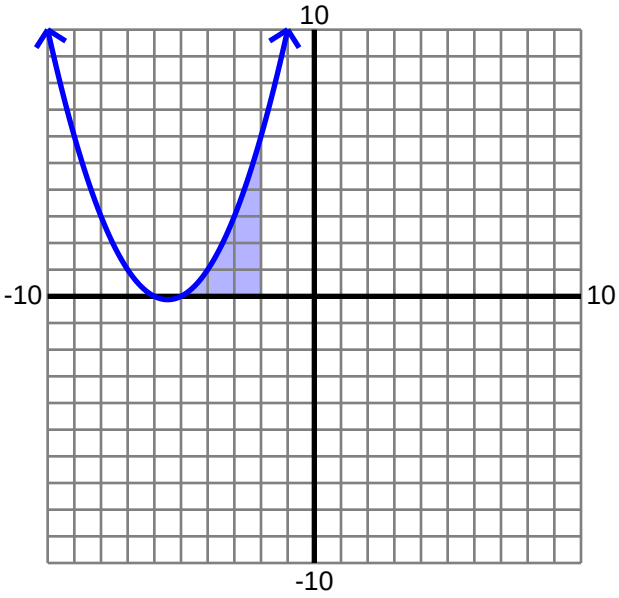
2) $y = -\frac{1}{2}x^2 + 3x$; [-2, 8]



3) $y = -\frac{1}{5}x^2 + \frac{1}{5}x + 4$; [-7, 8]



4) $y = \frac{1}{2}x^2 + \frac{11}{2}x + 15$; [-5, -2]



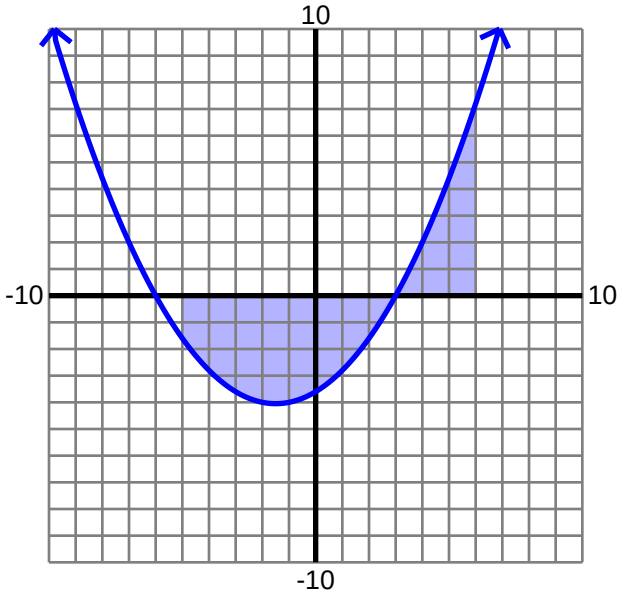
Name : _____ Score : _____

Teacher : _____ Date : _____

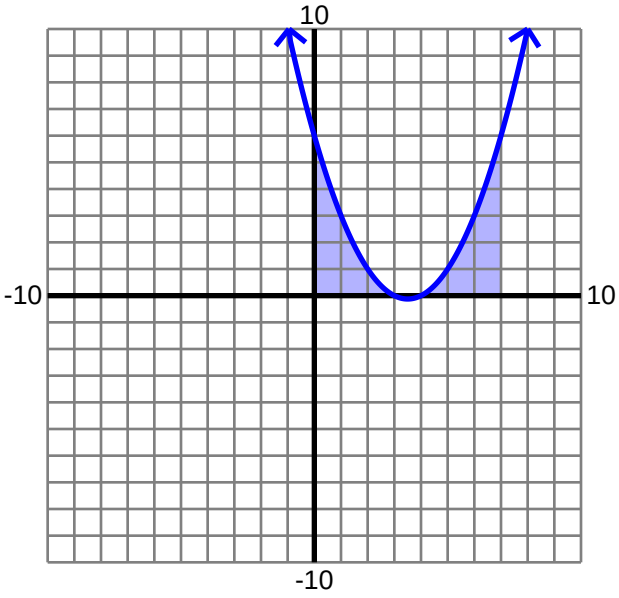
Area Under a Curve

Find the area under the curve on the given interval. Round to two decimals if necessary.

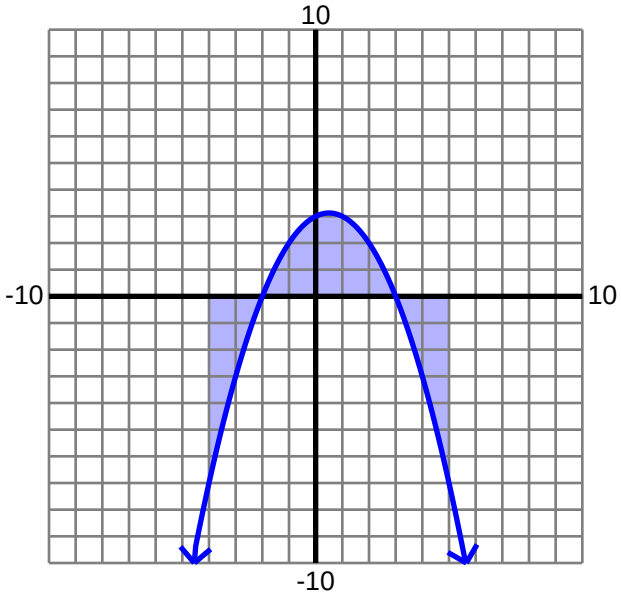
5) $y = \frac{1}{5}x^2 + \frac{3}{5}x - \frac{18}{5}$; [-5, 6]



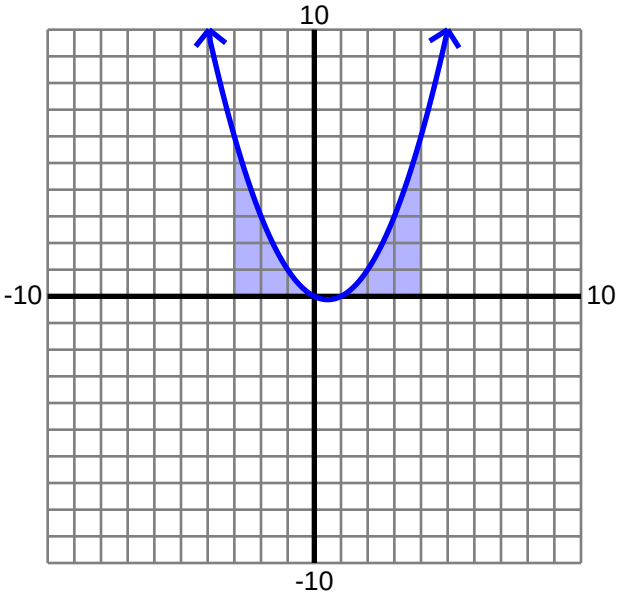
6) $y = \frac{1}{2}x^2 - \frac{7}{2}x + 6$; [0, 7]



7) $y = -\frac{1}{2}x^2 + \frac{1}{2}x + 3$; [-4, 5]



8) $y = \frac{1}{2}x^2 - \frac{1}{2}x$; [-3, 4]



Name : _____ Score : _____

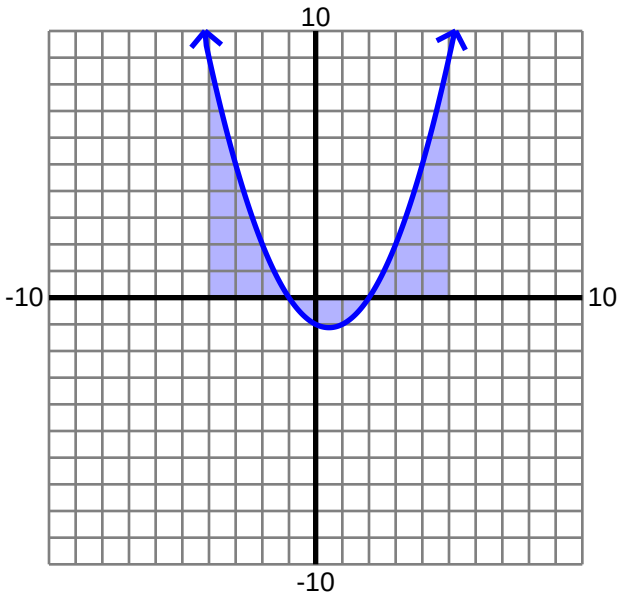
Teacher : _____ Date : _____

Area Under a Curve

Find the area under the curve on the given interval. Round to two decimals if necessary.

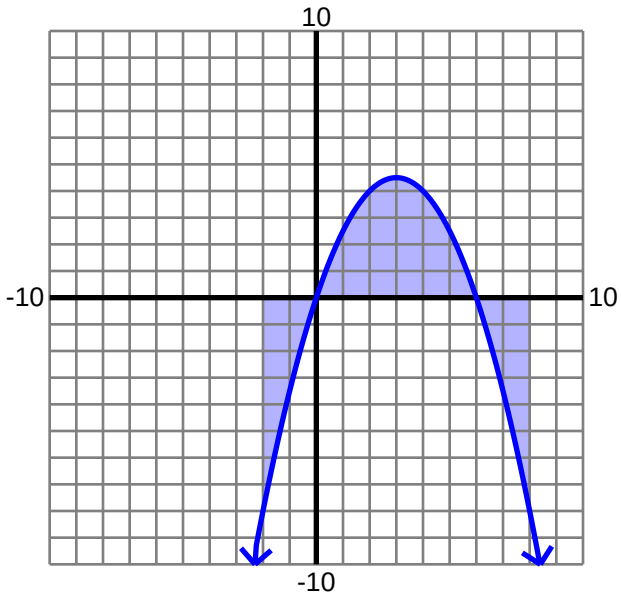
1) $y = \frac{1}{2}x^2 - \frac{1}{2}x - 1$; [-4, 5]

20.25



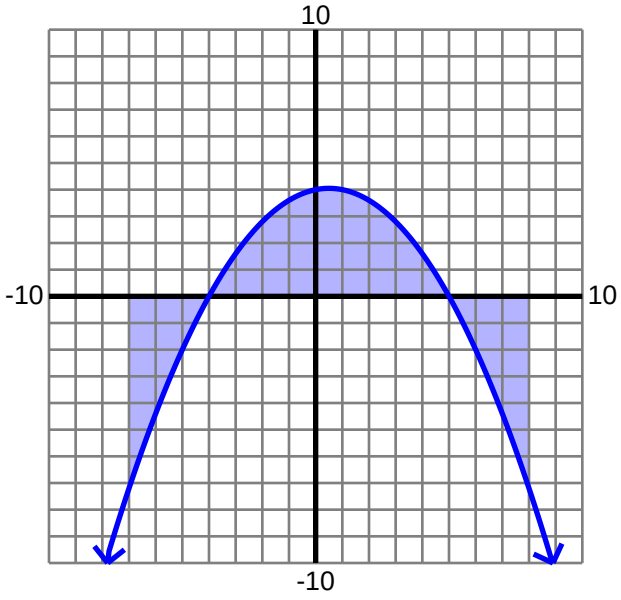
2) $y = -\frac{1}{2}x^2 + 3x$; [-2, 8]

3.33



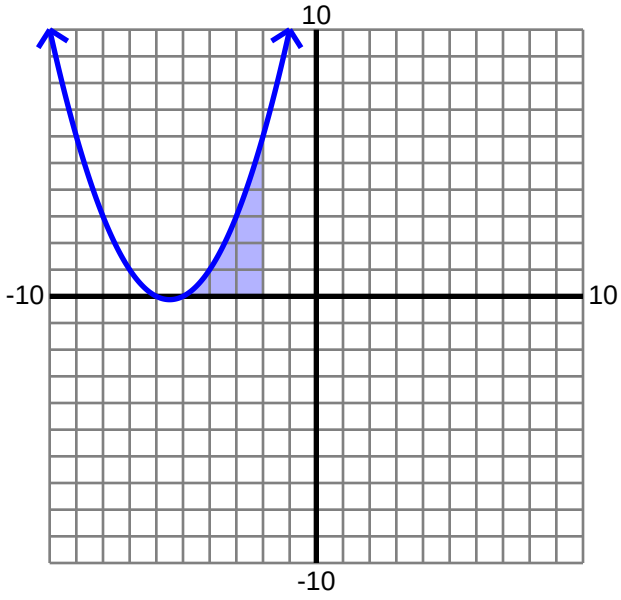
3) $y = -\frac{1}{5}x^2 + \frac{1}{5}x + 4$; [-7, 8]

4.5



4) $y = \frac{1}{2}x^2 + \frac{11}{2}x + 15$; [-5, -2]

6.75



Name : _____ Score : _____

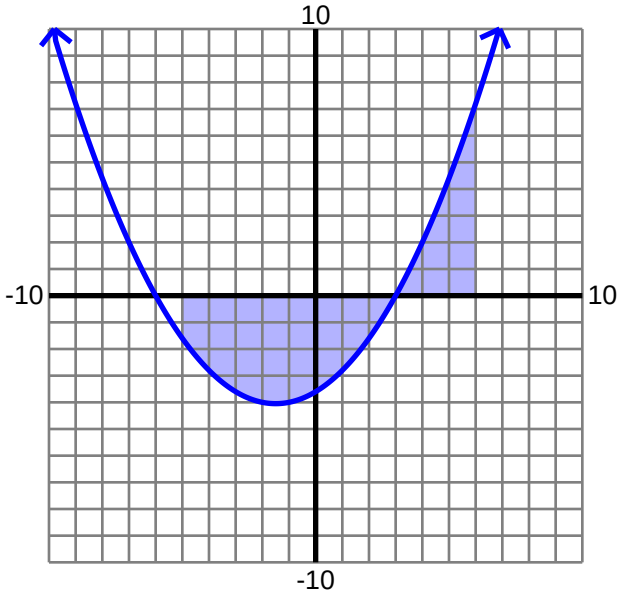
Teacher : _____ Date : _____

Area Under a Curve

Find the area under the curve on the given interval. Round to two decimals if necessary.

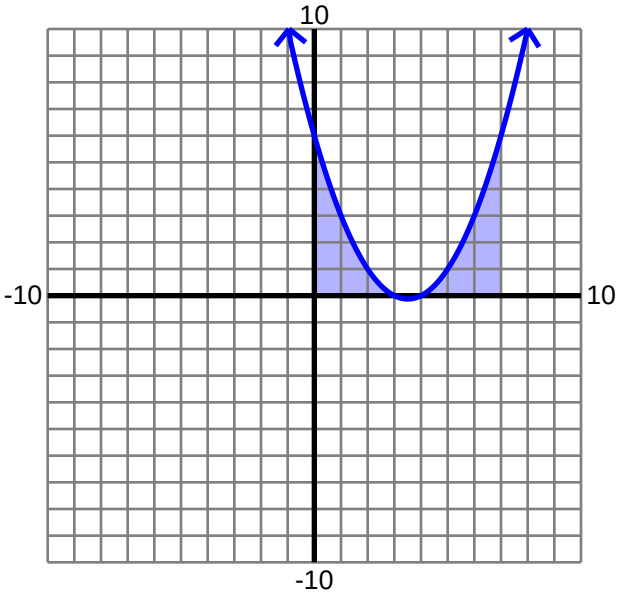
5) $y = \frac{1}{5}x^2 + \frac{3}{5}x - \frac{18}{5}$; [-5, 6]

-13.57



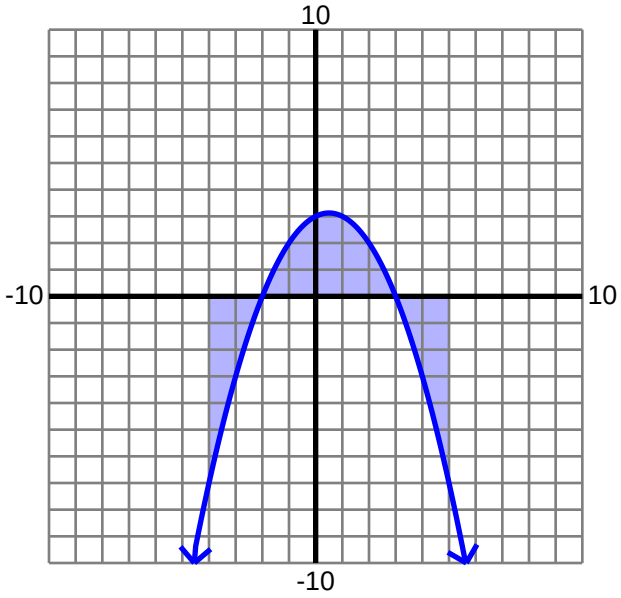
6) $y = \frac{1}{2}x^2 - \frac{7}{2}x + 6$; [0, 7]

13.42



7) $y = -\frac{1}{2}x^2 + \frac{1}{2}x + 3$; [-4, 5]

-2.25



8) $y = \frac{1}{2}x^2 - \frac{1}{2}x$; [-3, 4]

13.42