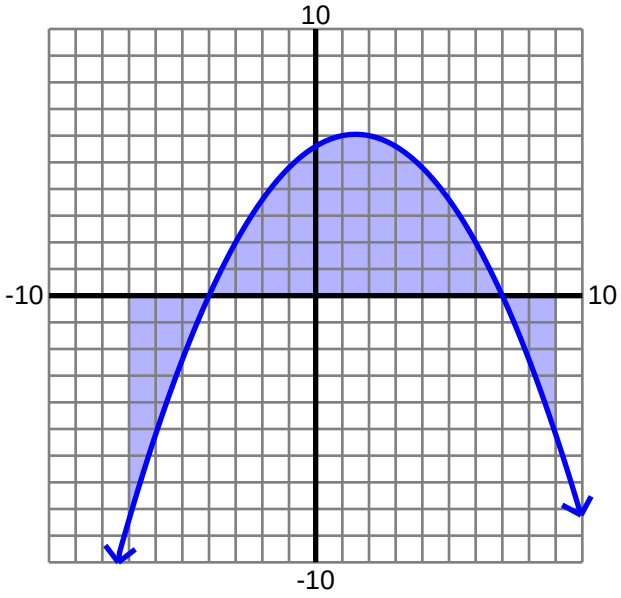
Name : _____ Score : _____

Teacher : _____ Date : _____

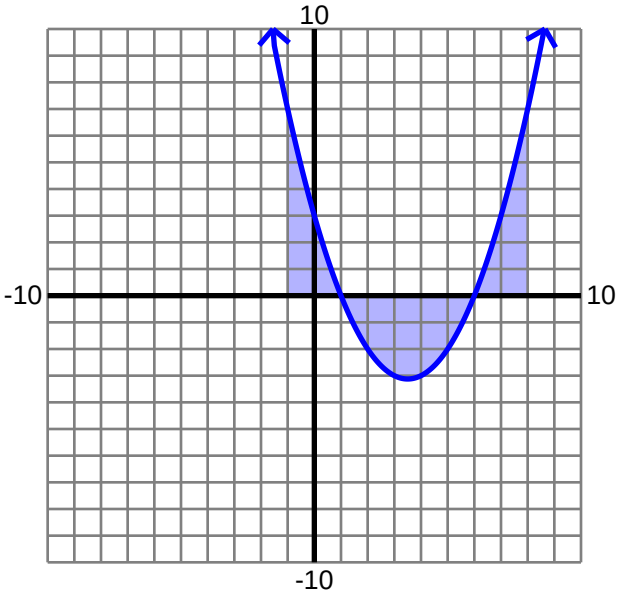
Area Under a Curve

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

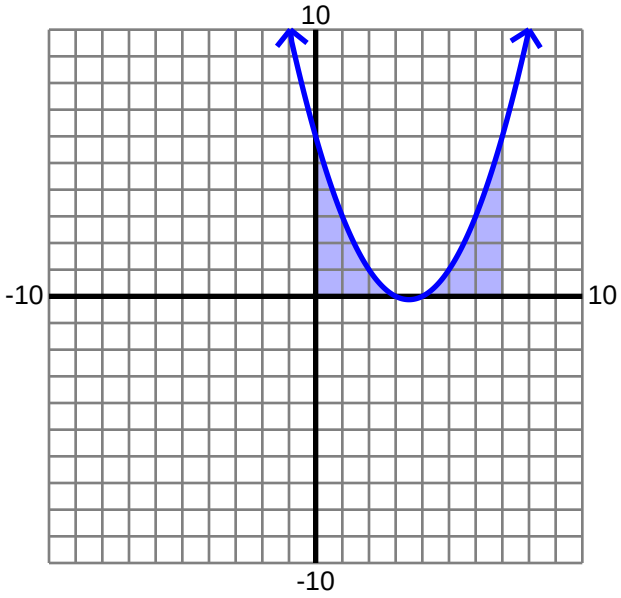
1) $y = -\frac{1}{5}x^2 + \frac{3}{5}x + \frac{28}{5}$; [-7, 9]



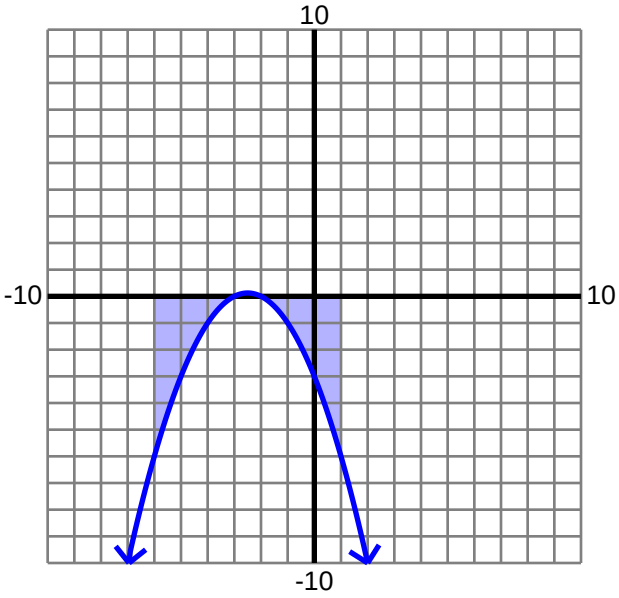
2) $y = \frac{1}{2}x^2 - \frac{7}{2}x + 3$; [-1, 8]



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



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



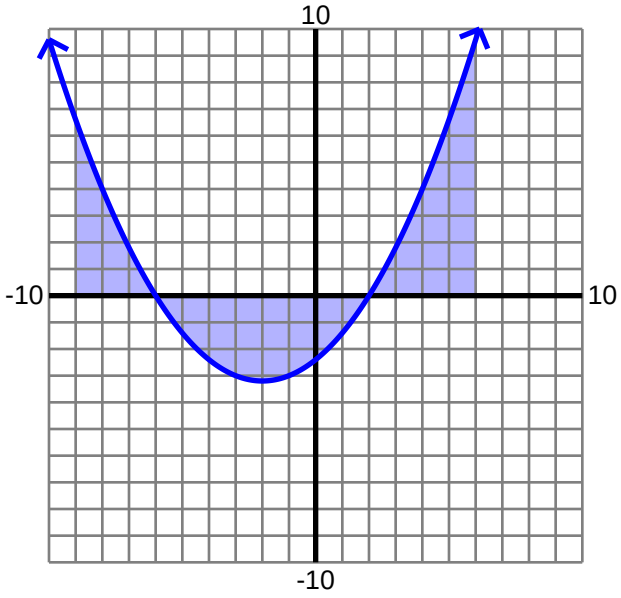
Name : _____ Score : _____

Teacher : _____ Date : _____

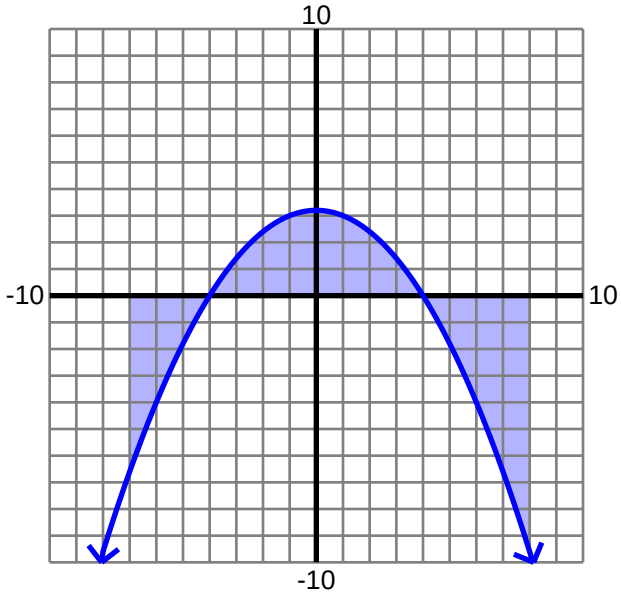
Area Under a Curve

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

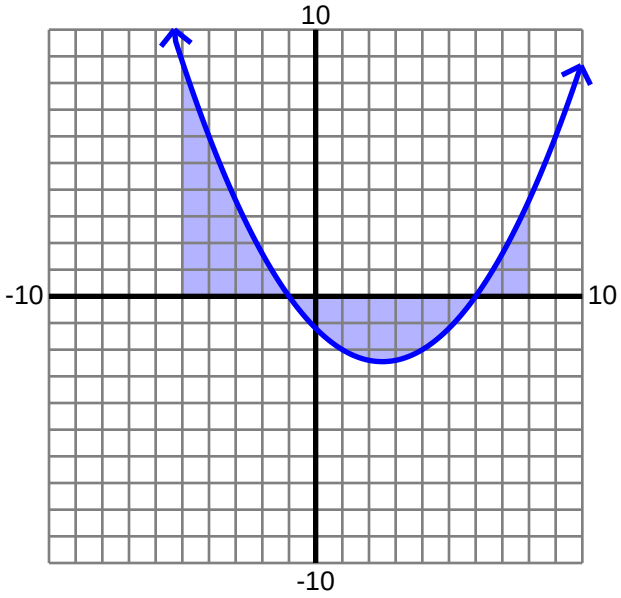
5) $y = \frac{1}{5}x^2 + \frac{4}{5}x - \frac{12}{5}$; [-9, 6]



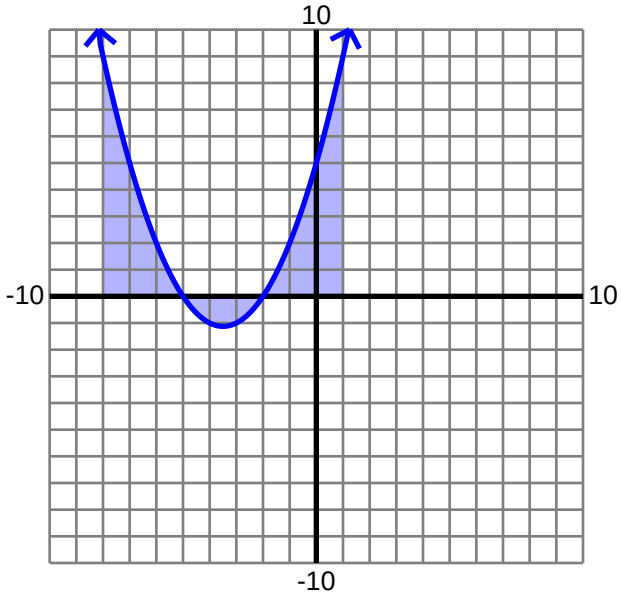
6) $y = -\frac{1}{5}x^2 + \frac{16}{5}$; [-7, 8]



7) $y = \frac{1}{5}x^2 - x - \frac{6}{5}$; [-5, 8]



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



Name : _____ Score : _____

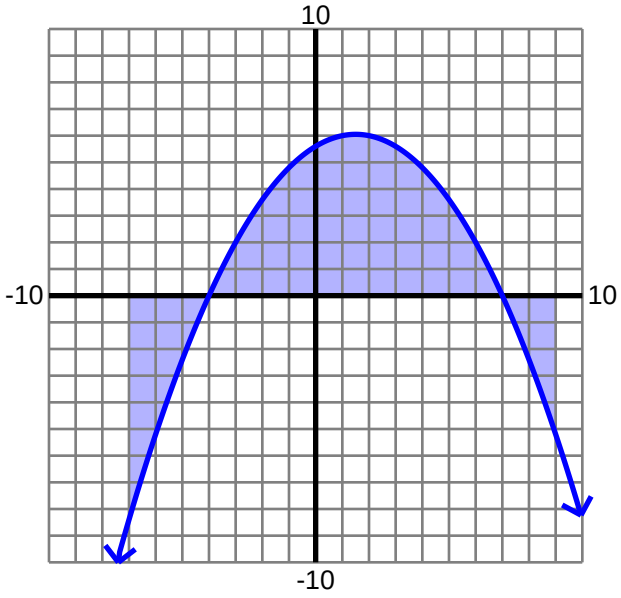
Teacher : _____ Date : _____

Area Under a Curve

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

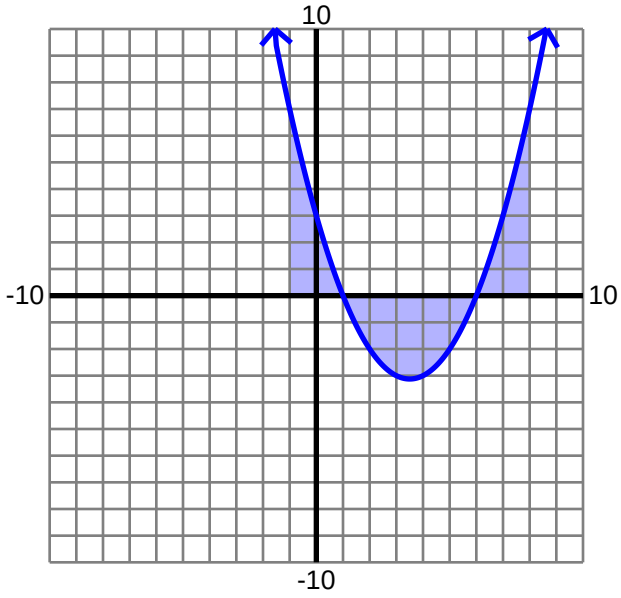
1) $y = -\frac{1}{5}x^2 + \frac{3}{5}x + \frac{28}{5}$; [-7, 9]

27.73



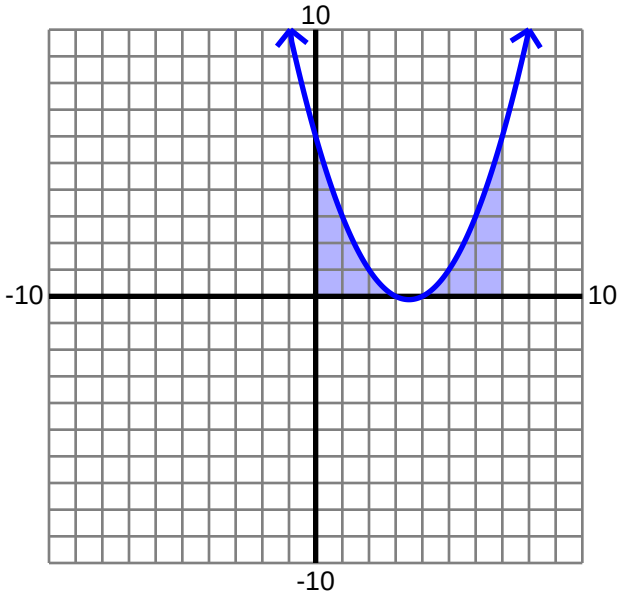
2) $y = \frac{1}{2}x^2 - \frac{7}{2}x + 3$; [-1, 8]

2.25



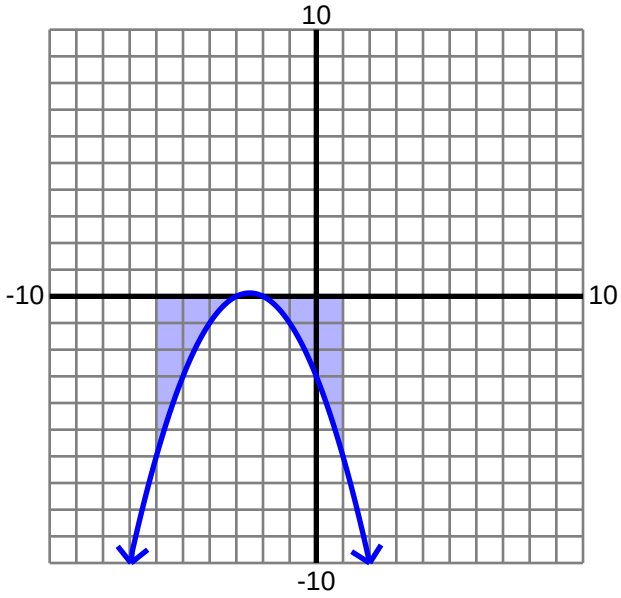
3) $y = \frac{1}{2}x^2 - \frac{7}{2}x + 6$; [0, 7]

13.42



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

-13.42



Name : _____ Score : _____

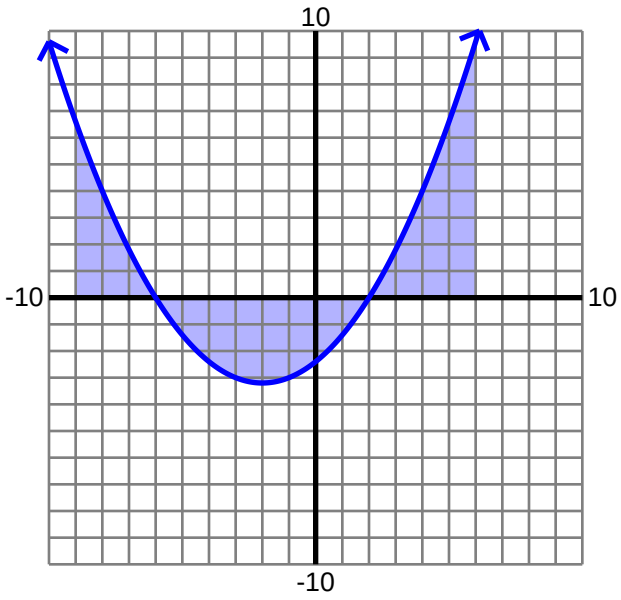
Teacher : _____ Date : _____

Area Under a Curve

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

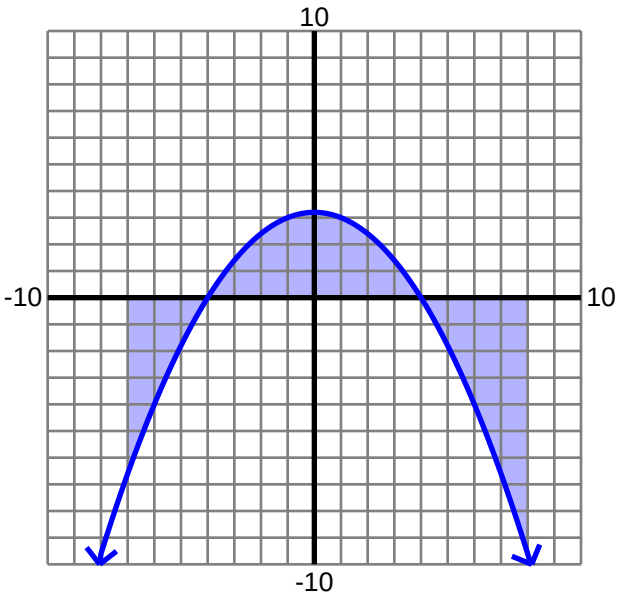
5) $y = \frac{1}{5}x^2 + \frac{4}{5}x - \frac{12}{5}$; [-9, 6]

9



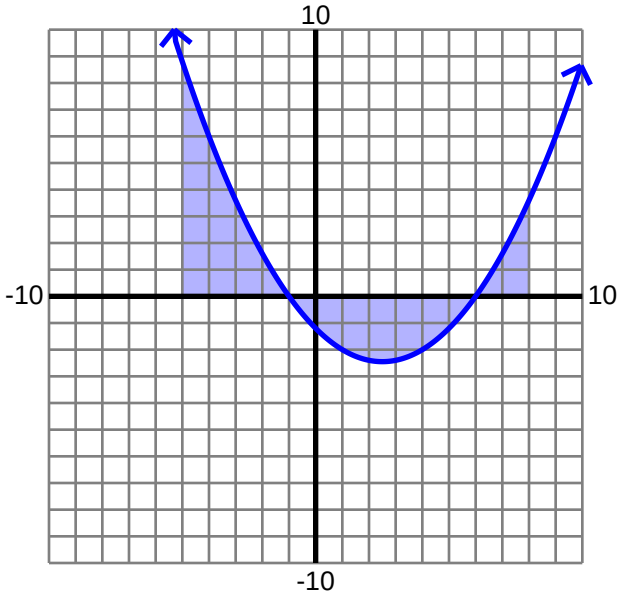
6) $y = -\frac{1}{5}x^2 + \frac{16}{5}$; [-7, 8]

-9



7) $y = \frac{1}{5}x^2 - x - \frac{6}{5}$; [-5, 8]

7.37



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

20.25