

Name : \_\_\_\_\_

Score : \_\_\_\_\_

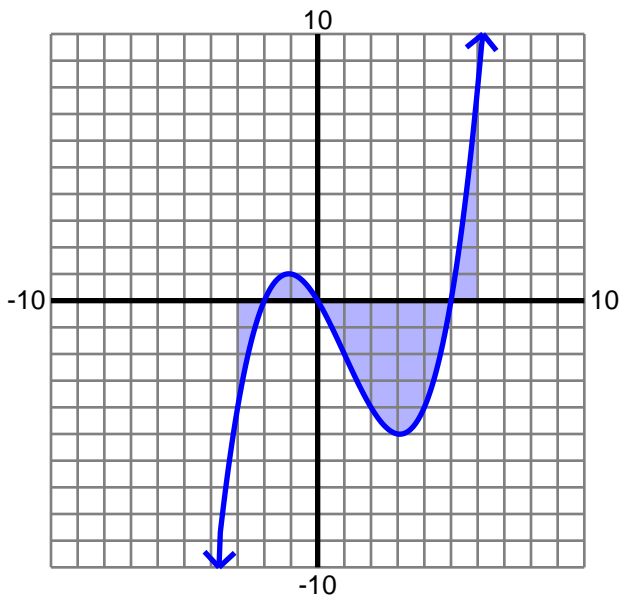
Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

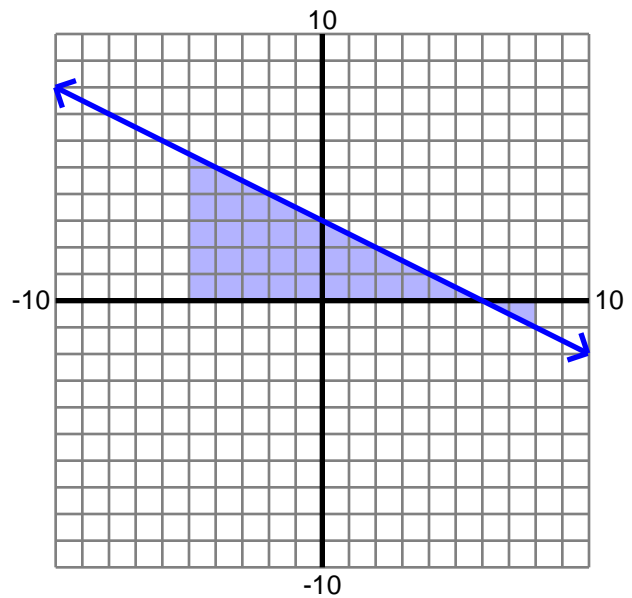
## Area Under a Curve

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

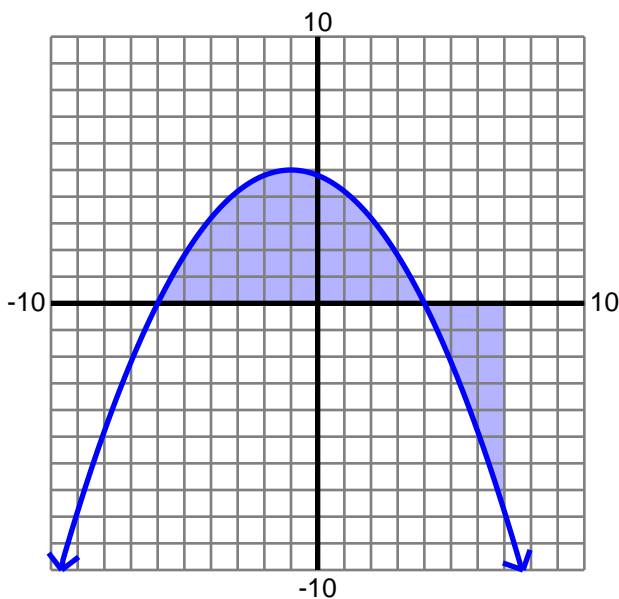
1)  $y = \frac{1}{6}x^3 - \frac{1}{2}x^2 - \frac{5}{3}x$  ;  $[-3, 6]$



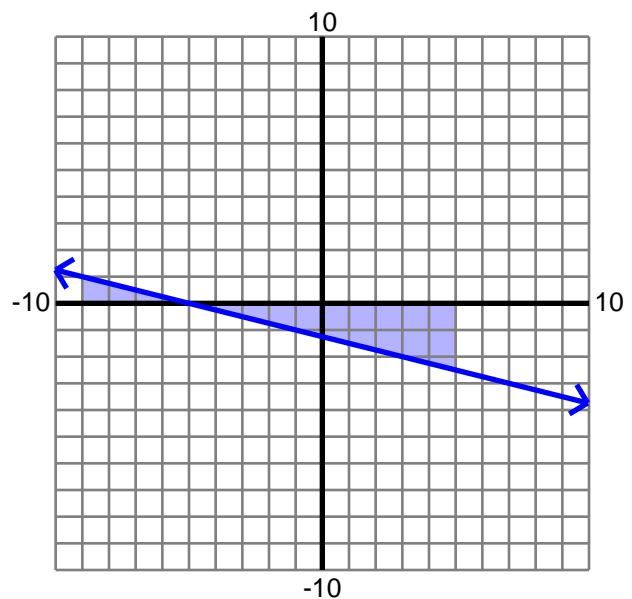
2)  $y = -\frac{1}{2}x + 3$  ;  $[-5, 8]$



3)  $y = -\frac{1}{5}x^2 - \frac{2}{5}x + \frac{24}{5}$  ;  $[-6, 7]$



4)  $y = -\frac{1}{4}x - \frac{5}{4}$  ;  $[-9, 5]$



Name : \_\_\_\_\_

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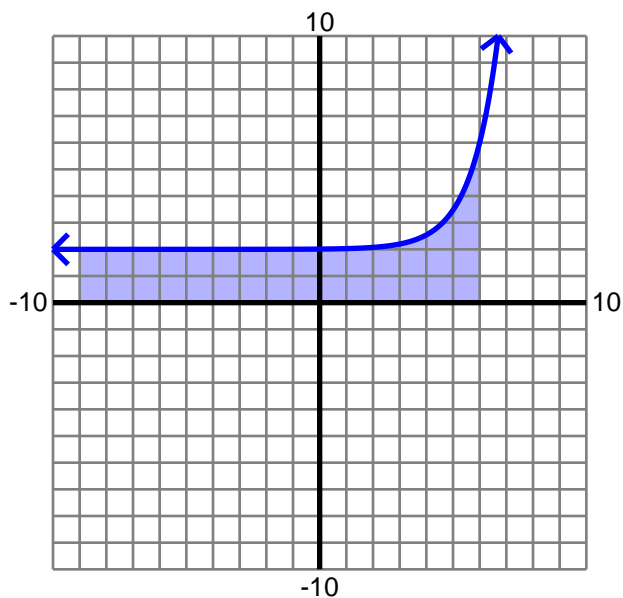
Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

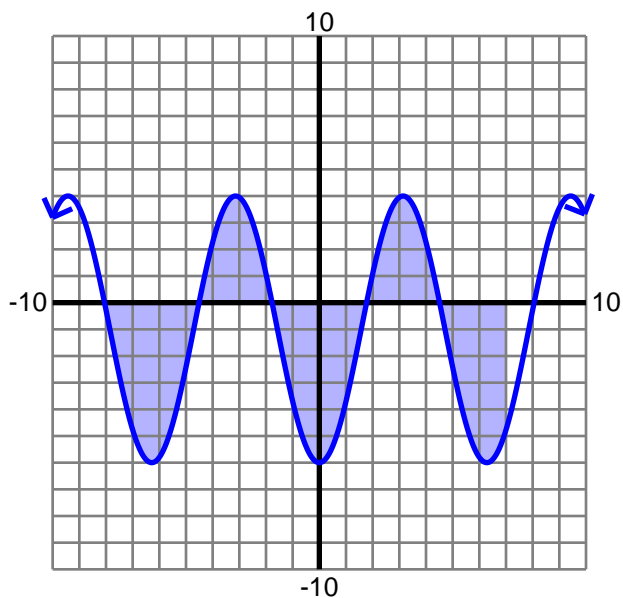
## Area Under a Curve

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

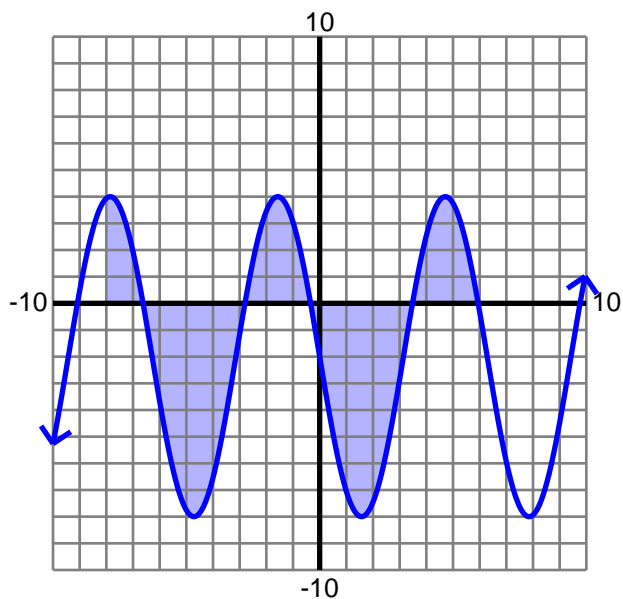
5)  $y = 4e^{x-6} + 2$  ;  $[-9, 6]$



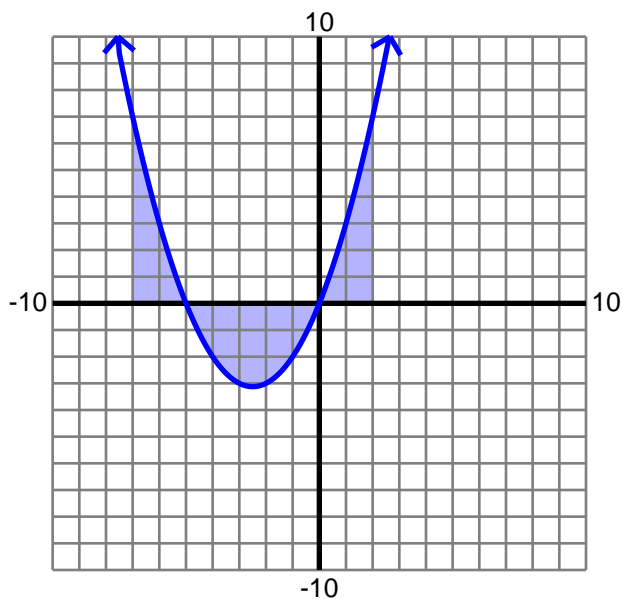
6)  $y = -5\cos(x) - 1$  ;  $[-8, 7]$



7)  $y = -6\sin(x) - 2$  ;  $[-8, 6]$



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



Name : \_\_\_\_\_

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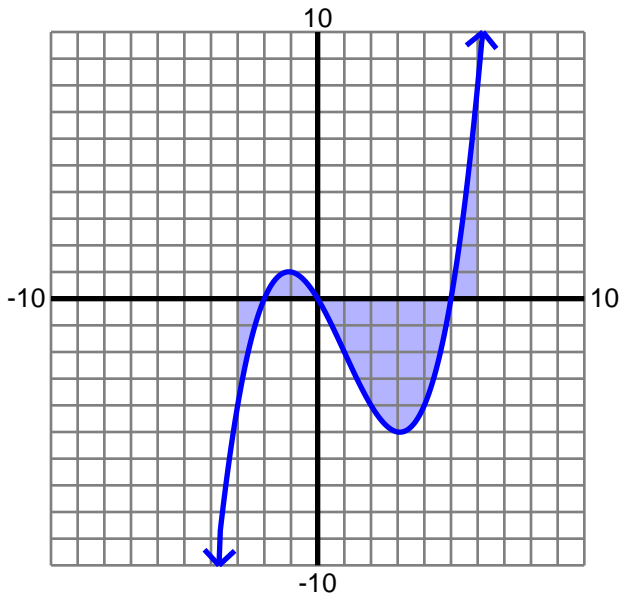
Date : \_\_\_\_\_

## Area Under a Curve

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

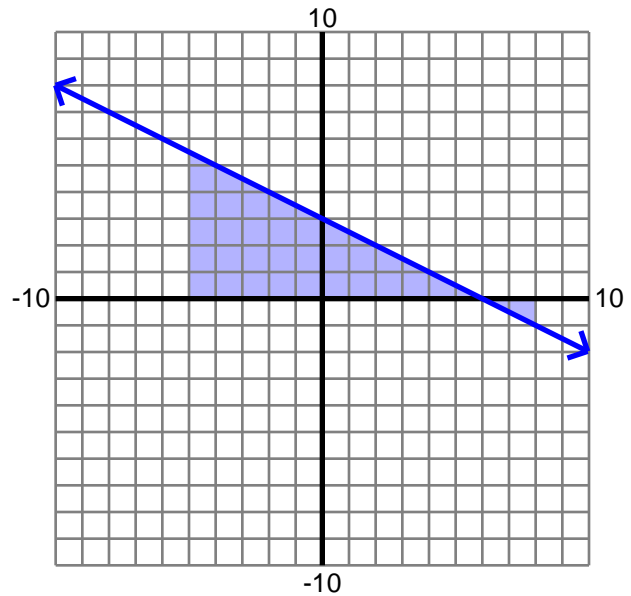
1)  $y = \frac{1}{6}x^3 - \frac{1}{2}x^2 - \frac{5}{3}x$ ;  $[-3, 6]$

-12.37



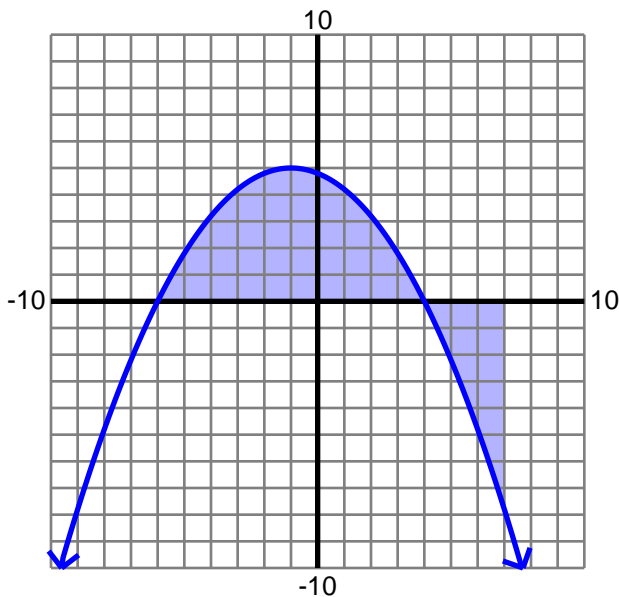
2)  $y = -\frac{1}{2}x + 3$ ;  $[-5, 8]$

29.25



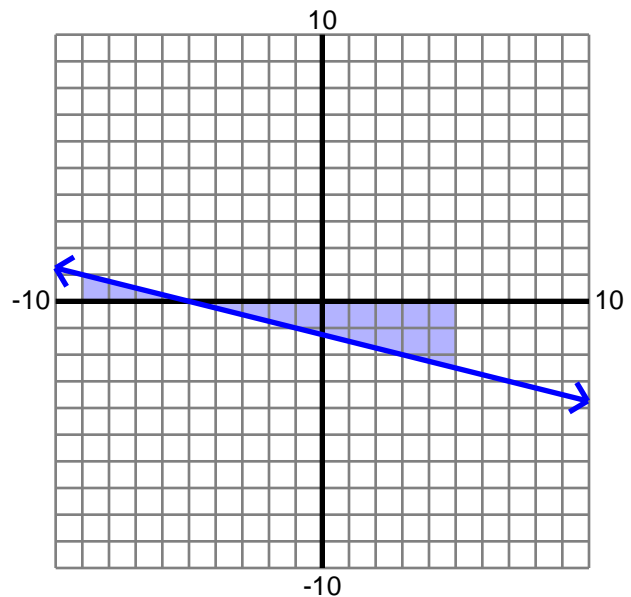
3)  $y = -\frac{1}{5}x^2 - \frac{2}{5}x + \frac{24}{5}$ ;  $[-6, 7]$

22.53



4)  $y = -\frac{1}{4}x - \frac{5}{4}$ ;  $[-9, 5]$

-10.5



Name : \_\_\_\_\_

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Teacher : \_\_\_\_\_

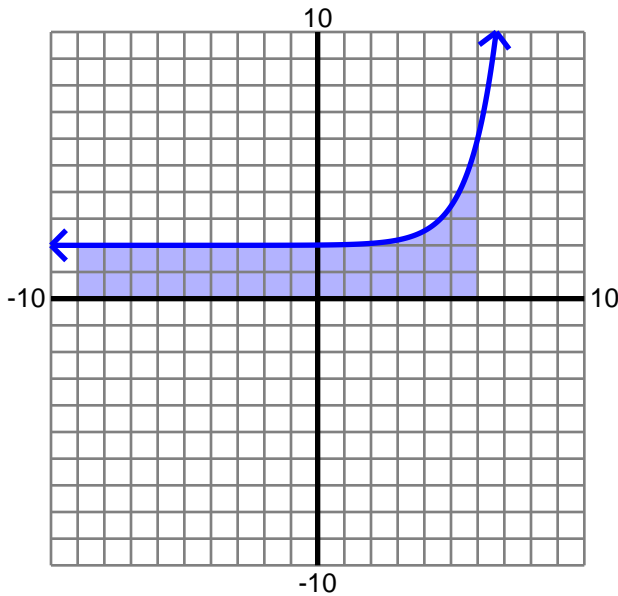
Date : \_\_\_\_\_

## Area Under a Curve

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

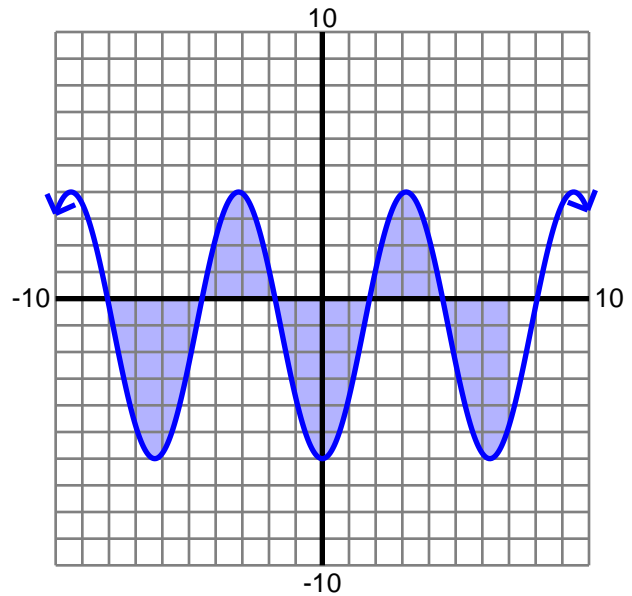
5)  $y = 4e^{x-6} + 2$  ;  $[-9, 6]$

34



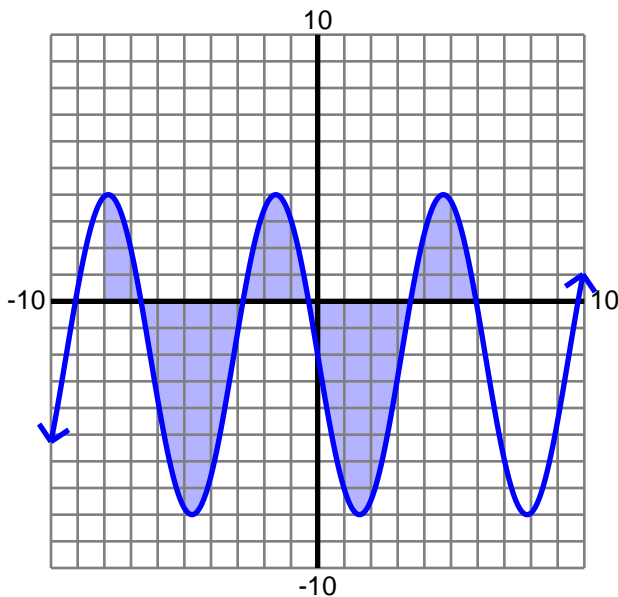
6)  $y = -5\cos(x) - 1$  ;  $[-8, 7]$

-23.23



7)  $y = -6\sin(x) - 2$  ;  $[-8, 6]$

-21.37



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

2.25

