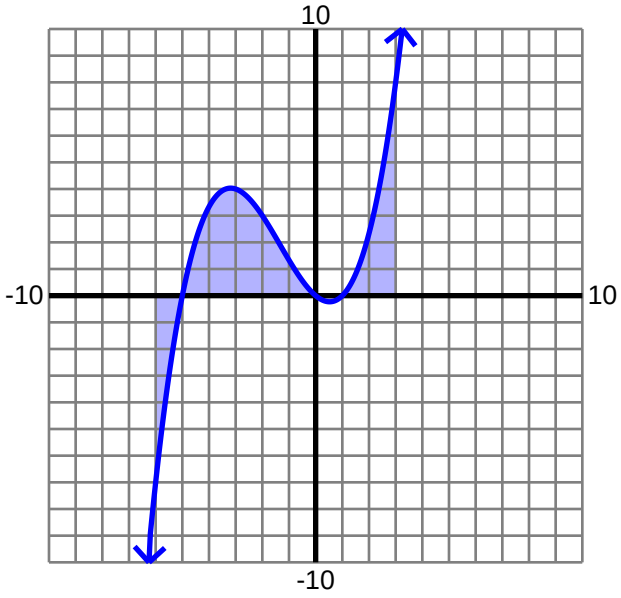
Name : _____ Score : _____

Teacher : _____ Date : _____

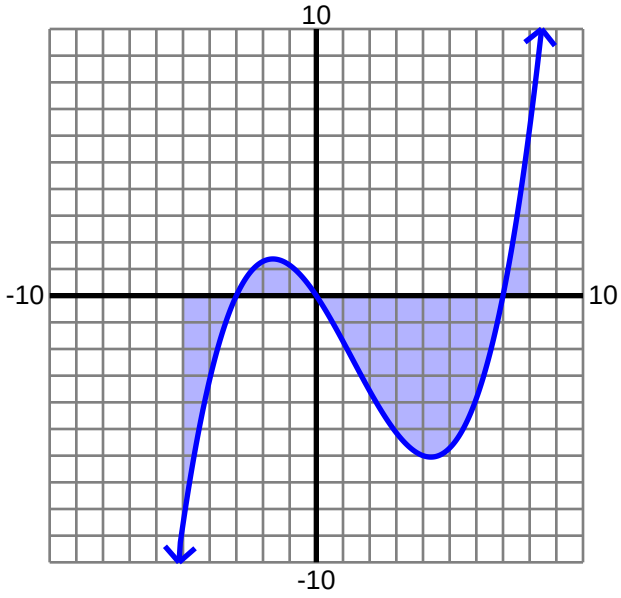
Area Under a Curve

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

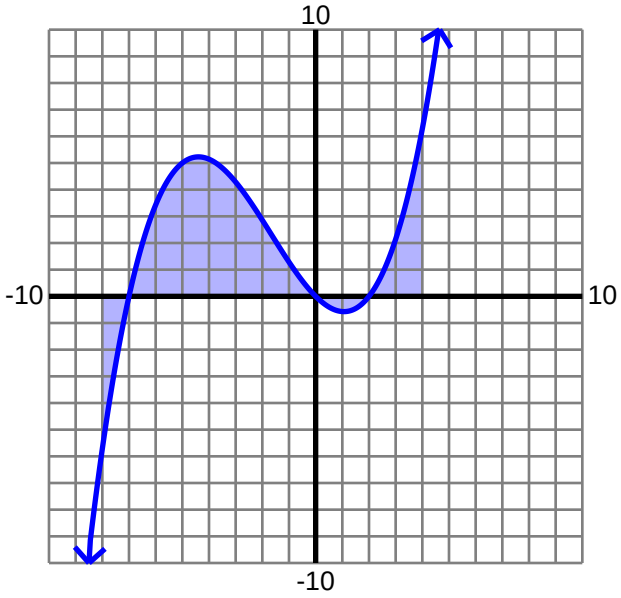
1) $y = \frac{1}{6}x^3 + \frac{2}{3}x^2 - \frac{5}{6}x$; [-6, 3]



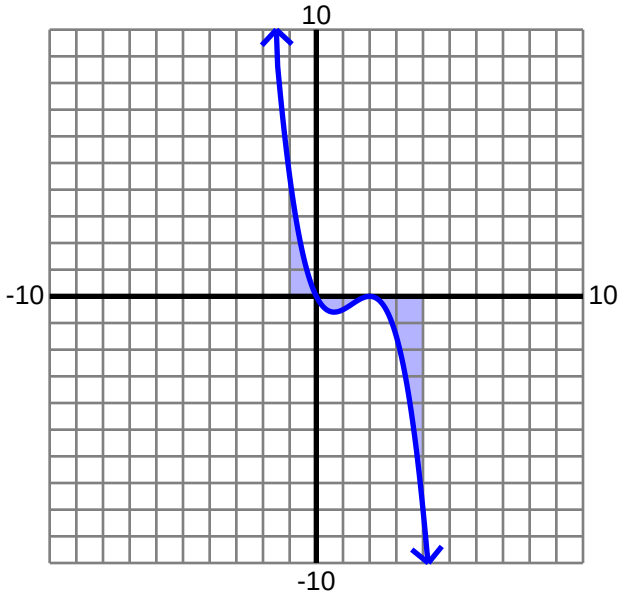
2) $y = \frac{1}{14}x^3 - \frac{2}{7}x^2 - \frac{3}{2}x$; [-5, 8]



3) $y = \frac{1}{14}x^3 + \frac{5}{14}x^2 - x$; [-8, 4]



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



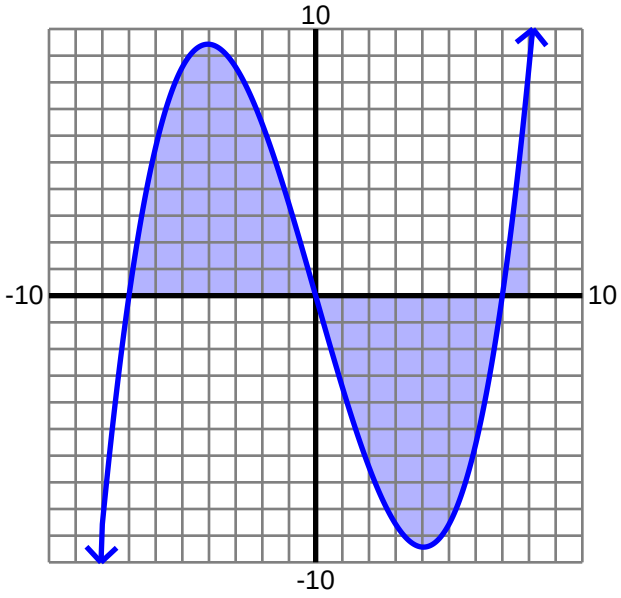
Name : _____ Score : _____

Teacher : _____ Date : _____

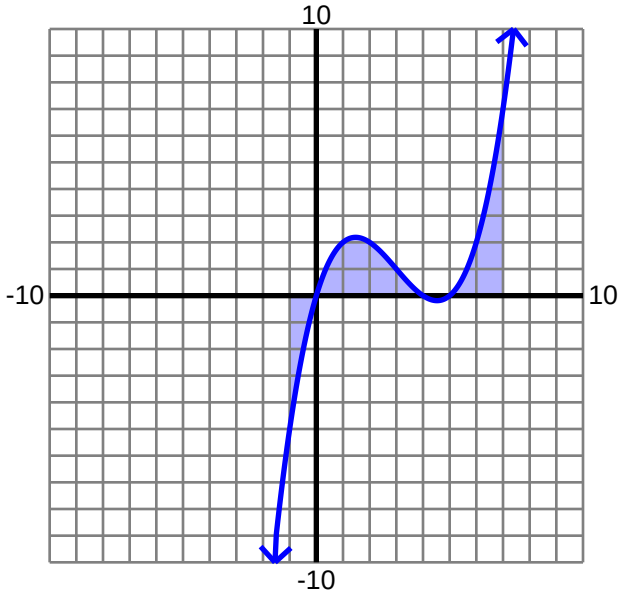
Area Under a Curve

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

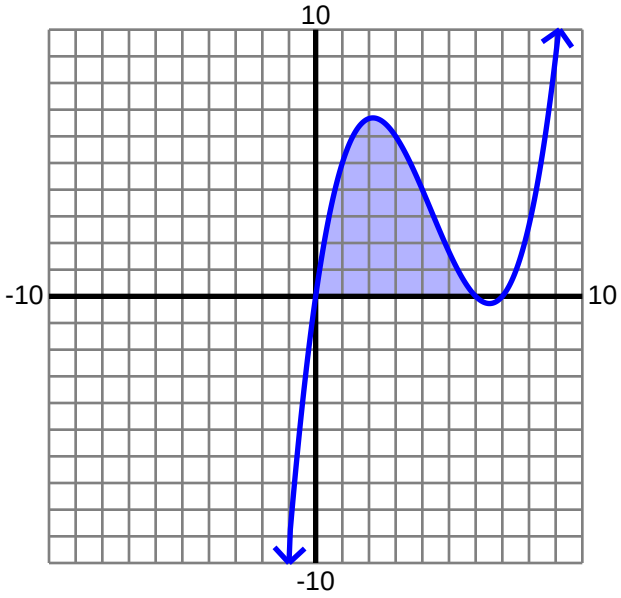
5) $y = \frac{1}{14}x^3 - \frac{7}{2}x$; [-7, 8]



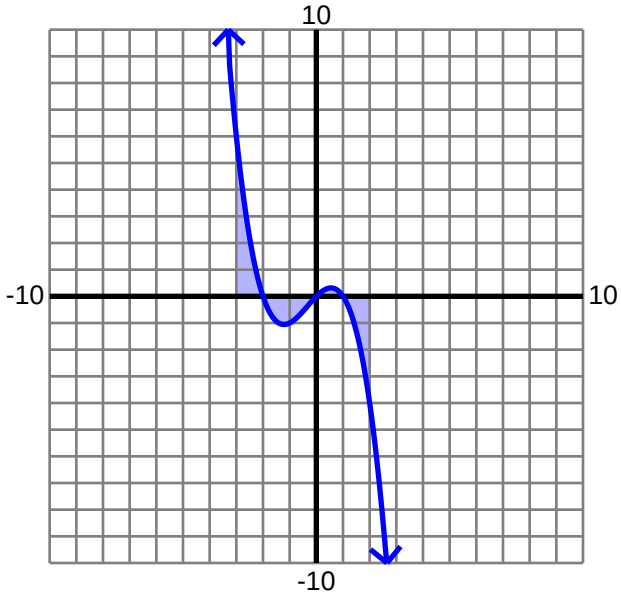
6) $y = \frac{1}{6}x^3 - \frac{3}{2}x^2 + \frac{10}{3}x$; [-1, 7]



7) $y = \frac{1}{6}x^3 - \frac{13}{6}x^2 + 7x$; [0, 6]



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



Name : _____ Score : _____

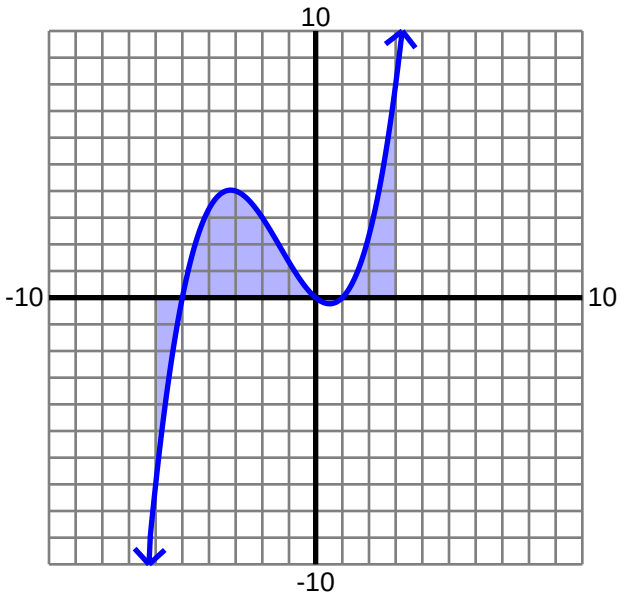
Teacher : _____ Date : _____

Area Under a Curve

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

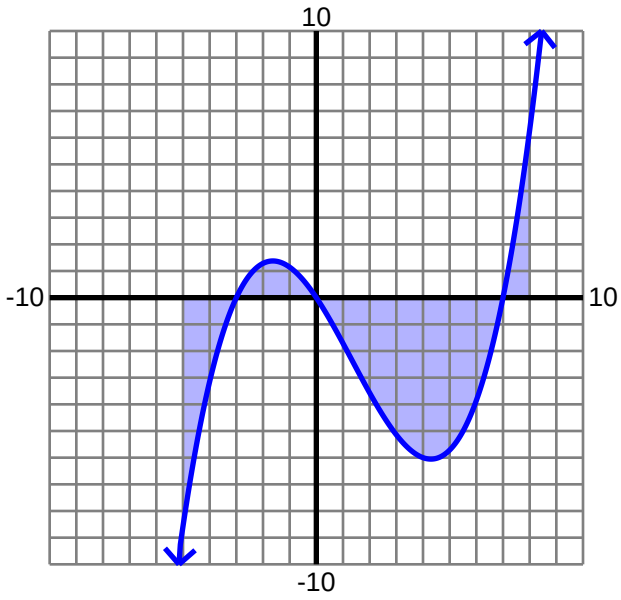
1) $y = \frac{1}{6}x^3 + \frac{2}{3}x^2 - \frac{5}{6}x$; [-6, 3]

14.62



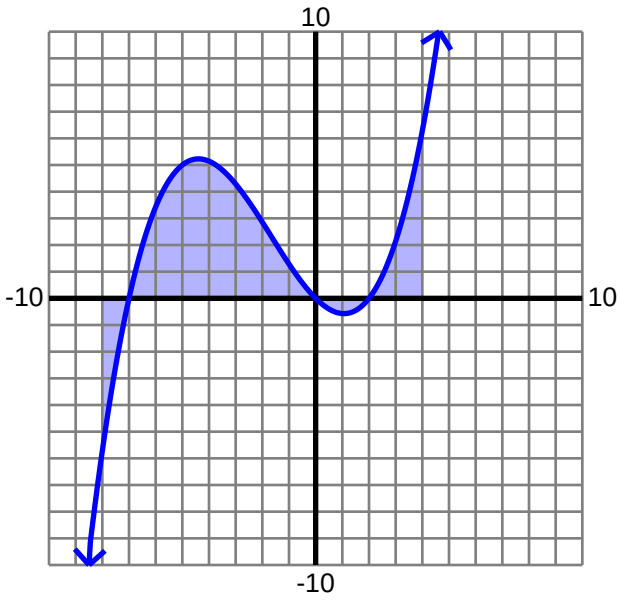
2) $y = \frac{1}{14}x^3 - \frac{2}{7}x^2 - \frac{3}{2}x$; [-5, 8]

-27.93



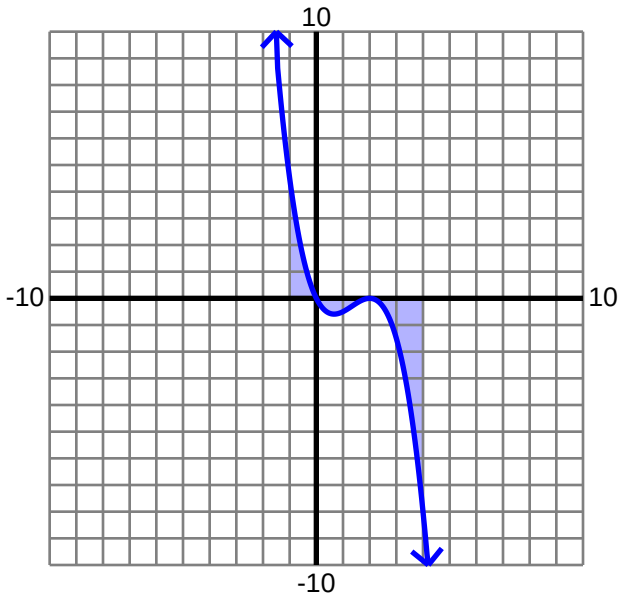
3) $y = \frac{1}{14}x^3 + \frac{5}{14}x^2 - x$; [-8, 4]

24



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

-3.54



Name : _____ Score : _____

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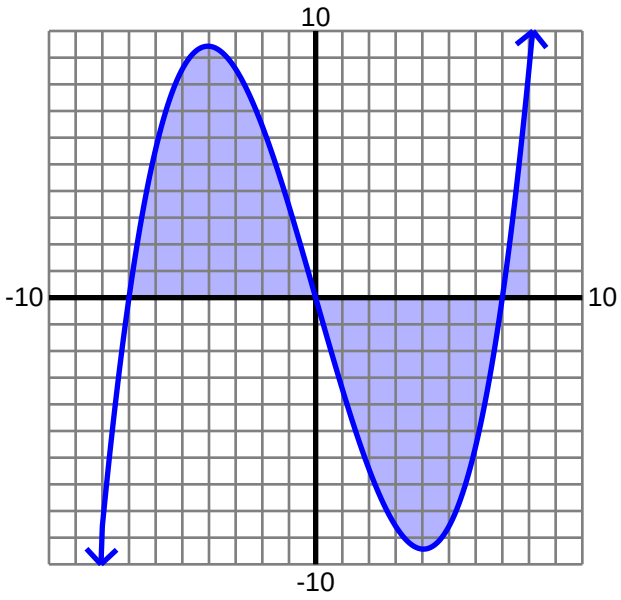
Area Under a Curve

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

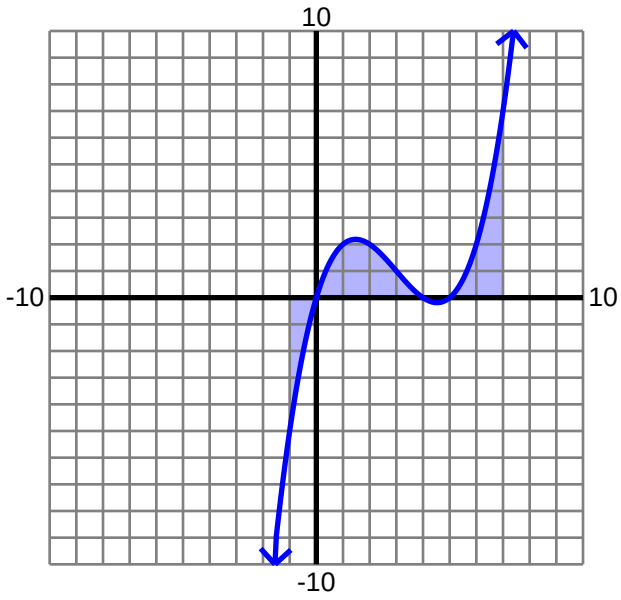
5) $y = \frac{1}{14}x^3 - \frac{7}{2}x$; [-7, 8]

4.02



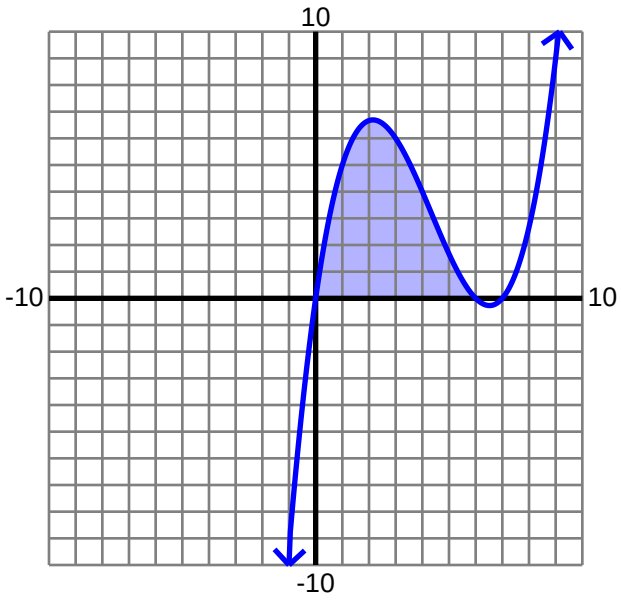
6) $y = \frac{1}{6}x^3 - \frac{3}{2}x^2 + \frac{10}{3}x$; [-1, 7]

8



7) $y = \frac{1}{6}x^3 - \frac{13}{6}x^2 + 7x$; [0, 6]

24



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

-0.21