

Name : _____

Score : _____

Teacher : _____

Date : _____

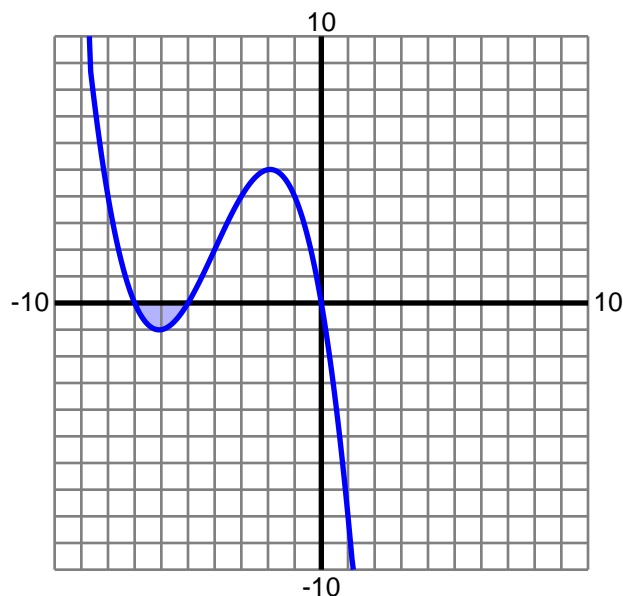
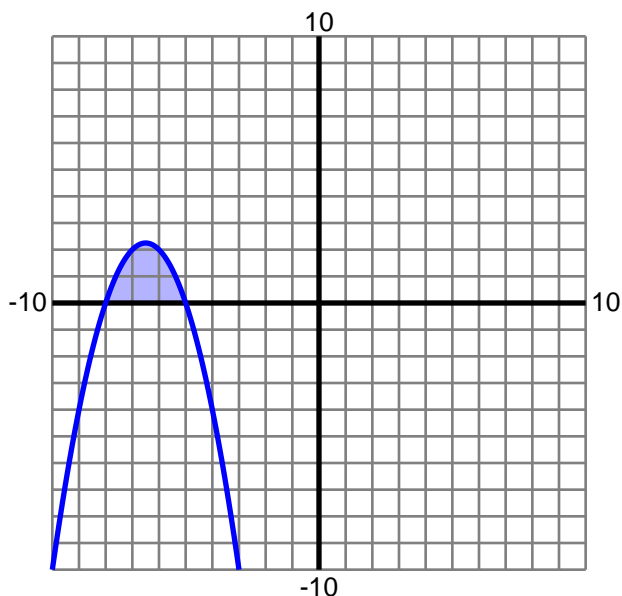
Volume Using Cylindrical Shells

Find the volume of the solid formed by rotating the enclosed region about the specified axis. Use cylindrical shells and round to two decimals.

1) $y = -x^2 - 13x - 40$

Axis: $x = 0$

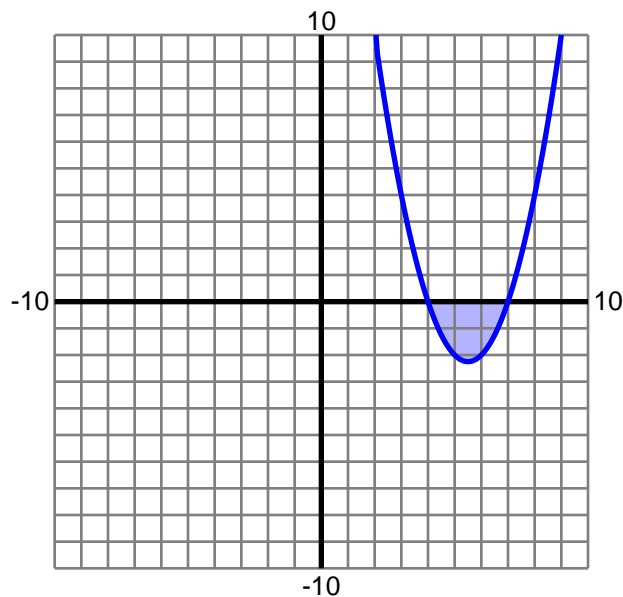
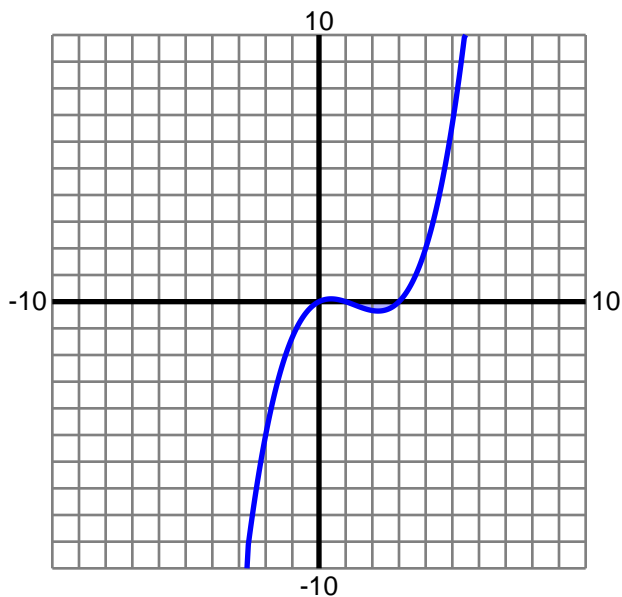
2) $y = -\frac{1}{6}x^3 - 2x^2 - \frac{35}{6}x$

Axis: $x = 0$ 

3) $y = \frac{1}{6}x^3 - \frac{2}{3}x^2 + \frac{1}{2}x$

Axis: $x = 0$

4) $y = x^2 - 11x + 28$

Axis: $x = 0$ 

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Find the volume of the solid formed by rotating the enclosed region about the specified axis. Use cylindrical shells and round to two decimals.

1) $y = -x^2 - 13x - 40$

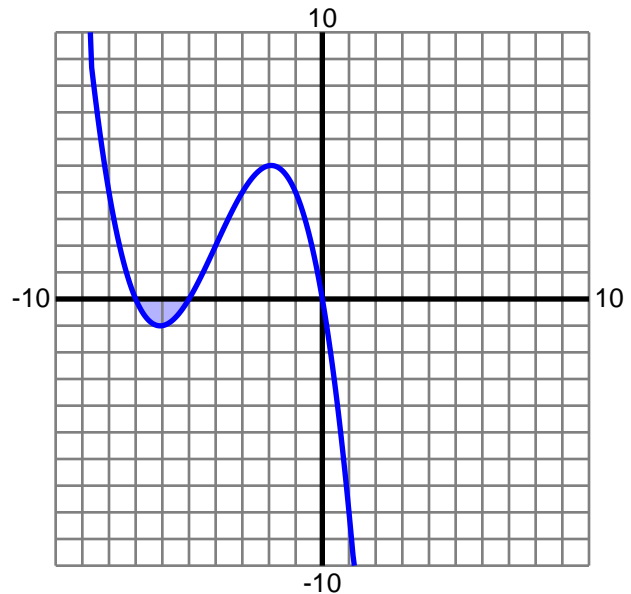
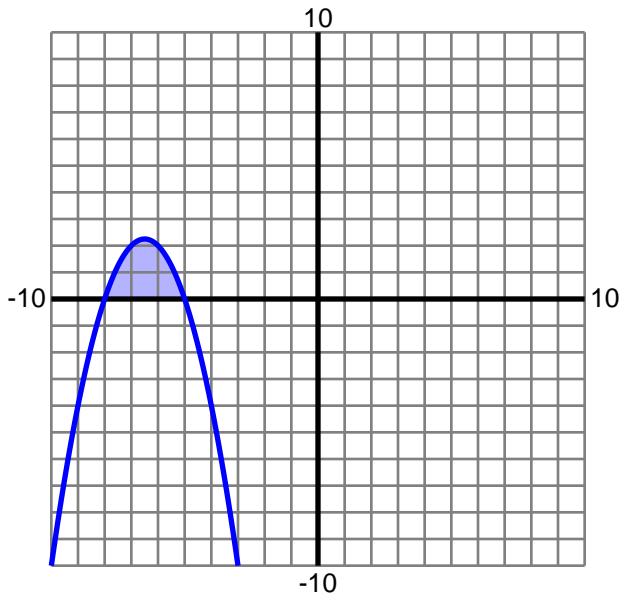
Axis: $x = 0$

Volume: 183.78

2) $y = -\frac{1}{6}x^3 - 2x^2 - \frac{35}{6}x$

Axis: $x = 0$

Volume: 50.54



3) $y = \frac{1}{6}x^3 - \frac{2}{3}x^2 + \frac{1}{2}x$

Axis: $x = 0$

Volume: 5.86

4) $y = x^2 - 11x + 28$

Axis: $x = 0$

Volume: 155.51

