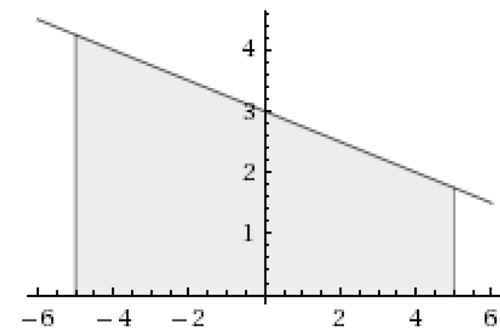


[1] 13.5

[2] Answers vary. Sample: 58



[3]

[4] 30

[5] $\frac{9\pi}{2}$

[6] 25

[7] 91

[8] $3x^2 \pm 5$

[9] $8 \pm x^3$

[10] $\int_0^{18} (\pm 0.66(t-18)^2 + 213.84) dt$

[11] $\int_0^{15} (\pm 0.12(t-15)^2 + 27) dt$

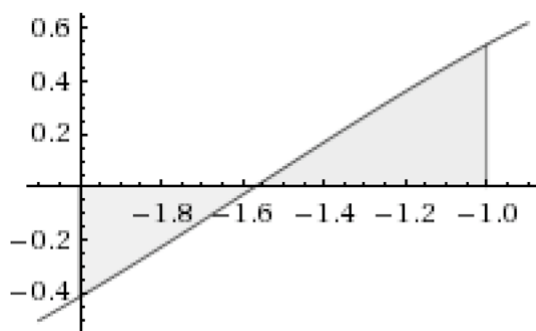
[12] 270 feet

[13] $2\pi(2.35^2 + 1.35^2 + 1^2 + 1.5^2) \approx 66.57$ cubic units

[14] $2\pi(7.1^2 + 2.5^2 + 2.1^2 + 3^2 + 3.5^2 + 3^2 + 2.1^2 + 2.5^2) \approx 640.76$ cubic units

[15] 175 miles

[16] about 116.56 miles



[17] _____ ; positive

[18] $\int_1^3 (x^3 + 1) dx$

[19] 22

[20] $\int_1^7 (x^2 + 1) dx$

[21] 108

[22] 2394π

[23] 1086π
