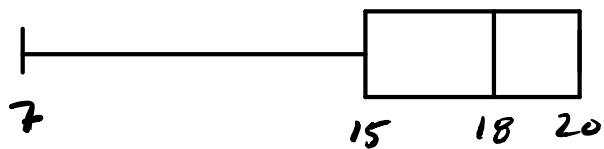


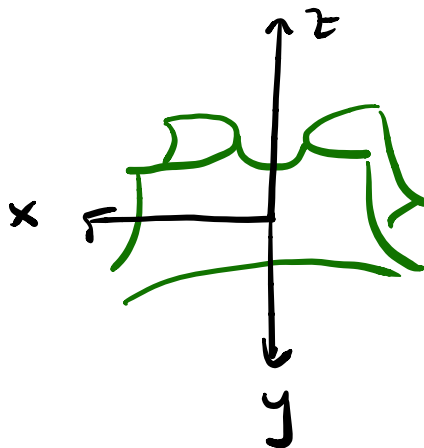
Quiz 1 results



- Quiz 2 today
- Sub next week

13.6.49, 14.1.44, 13.6 last

Hyperbolic
paraboloid



$$z = x^2 - y^2$$

13.6 (#7)

$$z - \sqrt{x} = 0$$

$$z^2 = x$$

14.1.44

$$y-x=0, \quad \vec{r}(t) = \langle \overset{x}{7\cos t}, \overset{y}{7\sin t}, \overset{z}{t} \rangle, \quad \underline{0 \leq t \leq 4\pi}$$

$$y=x \rightarrow 7\cos t = 7\sin t$$

$$\tan t = 1$$

$$\rightarrow \frac{\pi}{4} + \pi n$$

$$t = \frac{\pi}{4}, \frac{5\pi}{4}, \frac{9\pi}{4}, \frac{13\pi}{4}$$