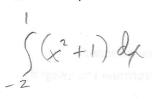
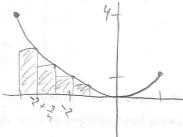
Practice with Integration

1.
$$\lim_{n\to\infty} \sum_{i=1}^n \left(\left(\frac{3}{n}i - 2 \right)^2 + 1 \right) \cdot \frac{3}{n}$$





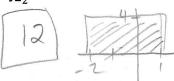
$$\triangle \times = \frac{3}{h}$$

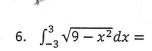
2.
$$\lim_{n\to\infty} \sum_{i=1}^n \cos\left(\frac{\pi}{n}i + \pi\right) \cdot \frac{\pi}{n}$$





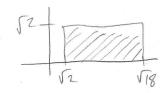
3.
$$\int_{-2}^{1} 4dx =$$

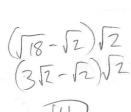


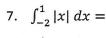


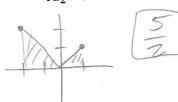


$$4. \quad \int_{\sqrt{2}}^{\sqrt{18}} \sqrt{2} dr =$$

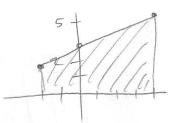






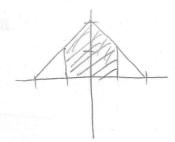


5.
$$\int_{-2}^{4} \left(\frac{x}{2} + 3\right) dx =$$

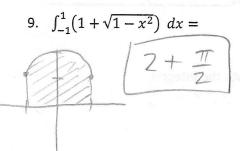


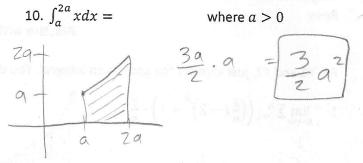
$$5\frac{12}{2}.6 = \boxed{21}$$

8.
$$\int_{-1}^{1} (2 - |x|) dx =$$









It can be shown that $\int_0^1 x^3 dx = \frac{1}{4}$. Using this fact and your knowledge of integration and function transformations, make graphs of the following ten functions and use your graph to determine the integral.

