

Work on evaluating these with your partner(s) at the board

$$1. \int 7e^{4x} \, dx$$

$$4. \int \sec(x)^2 \tan(x) \, dx$$

$$2. \int \frac{2x}{1+x^2} \, dx$$

$$5. \int x\sqrt{x+1} \, dx$$

$$3. \int \frac{\sin(\sqrt{x})}{\sqrt{x}} \, dx$$

Hint: Let $u = \sqrt{x}$

$$6. \int \frac{1}{1+x^2} \, dx$$

Hint: Let $u = x + 1$