

## Talk with the people around you for a minute

$$\arcsin\left(\frac{\sqrt{3}}{2}\right) =$$

(a)  $\frac{\pi}{6}$

(d)  $\frac{7\pi}{3}$

(b)  $\frac{\pi}{4}$

(e) 42

(c)  $\frac{\pi}{3}$

## Talk with the people around you for a minute

$$\arcsin\left(-\frac{1}{2}\right) =$$

(a)  $\frac{5\pi}{6}$

(d)  $-\frac{\pi}{3}$

(b)  $\frac{\pi}{3}$

(e)  $-\frac{\pi}{6}$

(c)  $\frac{7\pi}{6}$

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

1.  $\frac{d}{dx} \arcsin(\ln(x))$

2.  $\frac{d}{dx} \arctan(\sec(x^3))$

3.  $\int \frac{x+3}{\sqrt{1-(x^2+6x)^2}} dx$

4.  $\int \frac{\sin(4x)}{1+\cos(4x)^2} dx$

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

6.  $\int_0^1 \frac{e^x}{1+e^x} dx$

7.  $\int e^x \sqrt{1+e^x} dx$

8.  $\int x e^x dx$