

## 6.5: Impulse Functions

### Examples:

Solve the IVP  $y'' + 2y' + 10y = \delta(t - 5)$ ,  $y(0) = 0$ ,  $y'(0) = 0$

Solve the IVP  $y'' + y = \delta\left(t - \frac{\pi}{2}\right)(2 \sin(t))$ ,  $y(0) = 0$ ,  $y'(0) = 1$ .