# Distributing $(x + s) \cdot (x + t)$

# Distributing $(x + s) \cdot (x + t)$

$(x + s) \cdot (x + t) =$

# Distributing $(x + s) \cdot (x + t)$

$$(\mathbf{x} + s) \cdot (\mathbf{x} + t) = \mathbf{x^2}$$

# Distributing $(x + s) \cdot (x + t)$

$$(x + \mathbf{s}) \cdot (\mathbf{x} + t) = x^2 + \mathbf{sx}$$

# Distributing $(x + s) \cdot (x + t)$

$$(\mathbf{x} + s) \cdot (x + \mathbf{t}) = x^2 + sx + \mathbf{tx}$$

# Distributing $(x + s) \cdot (x + t)$

$$(x + \mathbf{s}) \cdot (x + \mathbf{t}) = x^2 + sx + tx + st$$

# Distributing $(x + s) \cdot (x + t)$

$$(x + s) \cdot (x + t) = x^2 + \underbrace{sx + tx}_{(s+t)x} + st = x^2 + (s + t)x + st$$