3. Here we want to isolate a, so we begin by removing the (1/2) on the right hand side of the equation by multiplying both sides of the equation by 2.

$$x = 1/2\, (a\, t^2)$$

$$2\,x = 2\,(1/2)\,(a\, t^2)$$

$$2\,x = a\, t^2$$

Next we remove the t^2 term from the right hand side of the equation by dividing both sides of the equation by t^2

$$2\,x \;/\; t^2 = a\;(t^2/t^2)$$

$$2\,x/t^2 = a\,(1)$$

$$a = 2\,x/t^2$$