## GQ: How do we apply algebra to equations with literals?

HSA.CED.A.4 Rearrange formulas to highlight a quantity of interest 11.1 Wed. 23 April

Simplify each expression by "collecting like terms"



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1. 
$$3x - 2x + 7y$$

$$- x + 7y$$

3. 
$$-\underline{k} + 7\sqrt{2} + 2\underline{k} + 3\sqrt{2}$$
  
-  $k + 10\sqrt{3}$ 

2. 
$$5z + 5\pi - 2\pi + z$$

4. 
$$5\pi x - 2\pi x + 9y$$

$$= (5\pi - 2\pi)x +$$

$$= (3\pi \times + 9)$$

# GQ: How do we apply algebra to equations with literals

HSA.CED.A.4 Rearrange formulas to highlight a quantity of interest 11.1 Wed. 22

Solve each equation for the unknown

1. 
$$\frac{k}{\sqrt{3}} = 11$$

$$\frac{\sqrt{3}}{\sqrt{3}} = \sqrt{3} \times 1/$$

$$\sqrt{3} = \sqrt{3} \times 1/$$

$$2. 5z - 2\pi = 4\pi + z$$

$$-7 + 2\pi + 2\pi - 2$$

$$4 = 6\pi + 4$$

$$7 = 6\pi$$

#### SA.CED.A.4 Rearrange formulas to highlight a quantity of interest 11.1 Wed. 22

### Solve each equation for the unknown

1. 
$$4x - x\sqrt{3} = 11$$

2.  $5\pi x - 2\pi x = \pi x + 14$ 

$$(4 - \sqrt{3})x - 1/2$$

$$(4 - \sqrt{3})x -$$