## Principles of Mathematics 11 – Module A Calculating the x- and y-intercepts

Eind tho a	and y-intercepts	algebraically	if they exist
ring the x-	and y-intercepts	argeoratearry,	II they exist.

$$y = (x-3)^2 - 4$$

$$y = (x-1)^2 - 4$$

y-intercept: \_\_\_\_\_
x-intercept(s): \_\_\_\_\_

y-intercept: \_\_\_\_\_
x-intercept(s): \_\_\_\_\_

3. 
$$y = (x+3)^2 - 49$$

4. 
$$y = (x+3)^2 - 64$$

y-intercept: \_\_\_\_\_ x-intercept(s): \_\_\_\_\_ y-intercept: \_\_\_\_\_ x-intercept(s): \_\_\_\_\_

$$\int y = (x-2)^2$$

6. 
$$y = (x+5)^2$$

y-intercept: \_\_\_\_\_
x-intercept(s): \_\_\_\_\_

*y*-intercept: \_\_\_\_\_ *x*-intercept(s): \_\_\_\_\_

7. 
$$y = (x-3)^2 - 5$$

$$y = (x-2)^2 - 7$$

y-intercept: \_\_\_\_\_ x-intercept(s): \_\_\_\_\_ y-intercept: \_\_\_\_\_
x-intercept(s): \_\_\_\_\_

 $=(x-2)^2+7$ 

10.  $y = (x+1)^2 + 3$ 

*y*-intercept: \_\_\_\_\_ *x*-intercept(s): \_\_\_\_\_ y-intercept: \_\_\_\_\_
x-intercept(s): \_\_\_\_\_

 $=2(x-3)^2-72$ 

12.  $y = 3(x-2)^2 - 27$ 

y-intercept: \_\_\_\_\_ x-intercept(s): \_\_\_\_\_ y-intercept: \_\_\_\_\_ x-intercept(s): \_\_\_\_\_

 $=-(x+1)^2+4$ 

14.  $y = -(x+2)^2 + 36$ 

y-intercept: \_\_\_\_\_ x-intercept(s): \_\_\_\_\_ y-intercept: \_\_\_\_\_x-intercept(s): \_\_\_\_\_

 $= x^2 + 2x + 1$ 

16.  $y = x^2 + 6x + 9$ 

*y*-intercept: \_\_\_\_\_ *x*-intercept(s): \_\_\_\_\_ y-intercept: \_\_\_\_\_ x-intercept(s): \_\_\_\_\_