1. Using a graphing calculator, complete the following table. **(12 marks)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***Equation*** | ***Vertex*** | ***x-intercept(s)*** | ***y-intercept*** | ***Domain*** | ***Range*** |
| ***y = x2*** |  |  |  |  |  |
| ***y = (x – 1)2 – 3*** |  |  |  |  |  |
| ***y = -3(x + 2)2 + 4*** |  |  |  |  |  |
| ***y = x2 – 2x + 5*** |  |  |  |  |  |
| ***y = –3x2 – 10x + 11*** |  |  |  |  |  |
| ***y = x2 + 3x + 10*** |  |  |  |  |  |

1. Solve graphically (using a graphing calculator) and check the following equations. **(2 marks each)**
2. 3x2 – 6x – 7 = 0
3. Solve graphically and check the following equations. **(2 marks each)**
4. 0.5z2 + 3z – 2 = 0



1. 3a2 = 18a – 21
2. 5p = 3 – 2p2

