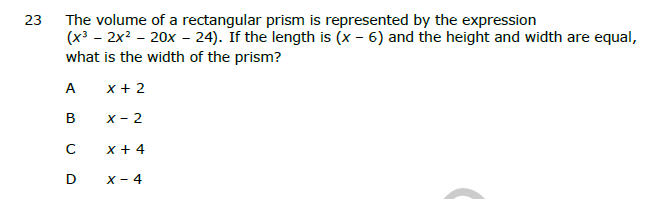
**Math 3 Unit 1 - Factoring**

|  |  |  |
| --- | --- | --- |
| x2 – 8x – 48 | 25x4 – 4y4  (hint: this is a difference of squares) | 3x3 + 9x2 + 2x + 6 |
| 2x2 – 162  (hint: factor out a GCF) | 2y2 – 9y – 5 | 18x2 – 9x  (hint: factor out a GCF ) |
| 2x2 - 8x – 10 | 2x3 + 8x2 + x + 4 | 4x2 – 81  (hint: this is a difference of squares) |
| 3x2 + 8x + 4 | x4 – 1  (hint: this is a difference of squares) | 9x3 + 12x2 – 3x – 4 |

Challenge: 

**Show that (x + 3) is a factor of (x3 + 7x2 + 16x + 12) and determine the other two factors.**