

**Math 1300**  
**Homework 17**  
**Section 4.2**

1. 4.2.12a
  - a.  $(x+5)(x+5)$
  - b.  $x^2 - 25$
  - c.  $(x+5)(x-5)$
  - d.  $(x-5)(x-5)$
  - e. None of the above
  
2. 4.2.12b
  - a.  $(x-5)(x+5)$
  - b.  $x^2 + 25$
  - c.  $(x-5)(x-5)$
  - d.  $(x+5)(x+5)$
  - e. None of the above
  
3. 4.2.18
  - a.  $(1-p)(1+p)$
  - b.  $1-p^2$
  - c.  $(1-p)(1-p)$
  - d.  $(1+p)(1+p)$
  - e. None of the above
  
4. 4.2.24
  - a.  $(5x-7)(5x-7)$
  - b.  $25x^2 - 49$
  - c.  $(5x+7)(5x+7)$
  - d.  $(5x-7)(5x+7)$
  - e. None of the above
  
5. 4.2.28
  - a.  $(8a+5b)(8a+5b)$
  - b.  $64a^2 - 25b^2$
  - c.  $(8a-5b)(8a-5b)$
  - d.  $(8a-5b)(8a+5b)$
  - e. None of the above

6. 4.2.38
- a.  $(x - 4)(x + 4)$
  - b.  $(x + 4)^2$
  - c.  $(x - 4)^2$
  - d.  $x^2 + 8x + 16$
  - e. None of the above

7. 4.2.42
- a.  $x^2 - 24x + 144$
  - b.  $(x - 12)^2$
  - c.  $(x + 12)^2$
  - d.  $(x - 12)(x + 12)$
  - e. None of the above

8. 4.2.44
- a.  $(3x + 5)^2$
  - b.  $9x^2 - 30x + 25$
  - c.  $(3x - 5)^2$
  - d.  $(3x + 5)(3x - 5)$
  - e. None of the above

9. 4.2.54
- a.  $(m + 1)^3$
  - b.  $(m - 1)^3$
  - c.  $(m - 1)(m^2 + m + 1)$
  - d.  $m^3 - 1$
  - e. None of the above

10. 4.2.58
- a.  $c^3 + d^3$
  - b.  $(c + d)^3$
  - c.  $(c - d)^3$
  - d.  $(c + d)(c^2 - cd + d^2)$
  - e. None of the above