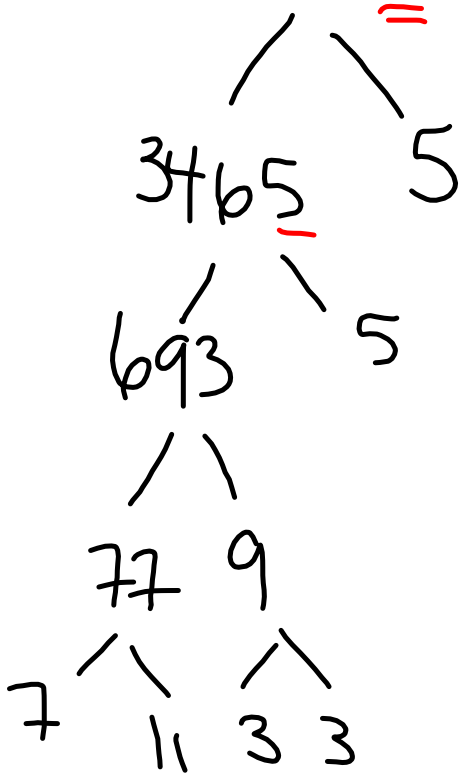
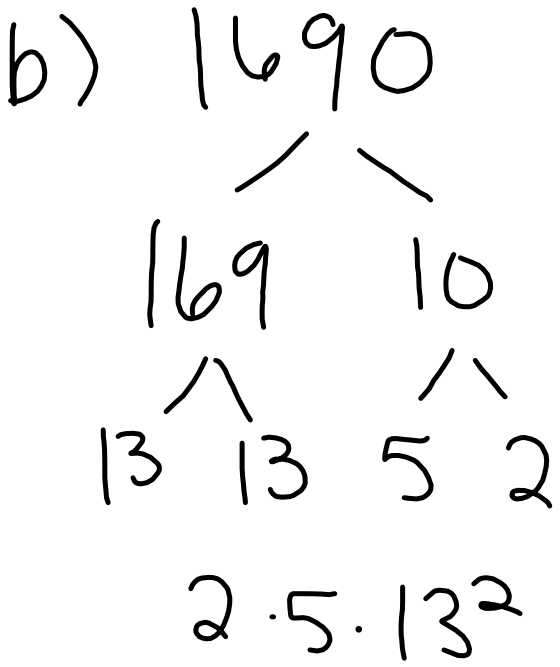
Factoring Test Review Answers

1.a) 17325



$3^2 \cdot 5^2 \cdot 7 \cdot 11$

b) 1690



$2 \cdot 5 \cdot 13^2$

2. $4x^6y^3 + 10y^5$

Common Factor

$2y^3(2x^6 + 5y^2)$

3 a) $(x-7)^3 = x^3 - 21x^2 + 147x - 343$

$(x-7)(x-7)(x-7)$

b) $6x^5 - 23x^4 + 41x^3 - 44x^2 + 40x - 56$

c) $22xy - 33x + 3y + 15$

d) $-26x^2 + 36x - 16$

4) 1) $6b^2(a^2-4)$

$6b^2(a+2)(a-2)$

2) $(3x-5)(x+2)$

3) $(x-2y)(x+2y)$

4) $(m-11)(m+1)$

5) $(5x-3)^2$

6) $(n-3)(2n-3)$

7) $3(5x^{11}-4y^2)$

8) $2(x-6)(x+5)$

9) $(2x+25y)^2$

10) $(6n-9)(6n+9)$

11) $(a+3)(a-12)$

12) $5x(3y-5xy^3+15x)$

13) $8(-7x^3+10)$

14) $(3m^2+5n^2)^2$

15) $(v-7)(5v+9)$

16) $(8x-6y)(8x+6y)$

17) $2(x-5)(x+4)$

18) $4x^2+25$

19) $(x-5y)(3x-2y)$

20) $(10x-7)^2$

21) $(5r-7)(5r+7)$

22) $(p-12)(p+7)$