S4 National 4 Homework

Week 10

Monday

Fully factorise the following:

1. $5a - 15$
2. $12m + 15n$
3. $4ab + 8b$
4. $x^2 - 4$
5. $a^2 - 81$
6. $25 - w^2$
7. $x^2 + 8x + 15$
8. $m^2 + 7m + 12$

Tuesday

Fully factorise the following:

1. $15a - 20$
2. $4y - 20z$
3. $a^2 - 9$
4. $49 - k^2$
5. $x^2 - x - 12$
6. $b^2 + 13b + 30$
7. $p^2 + 2p - 8$
8. $x^2 + 9x + 14$

Thursday

Solve the following:

1. $2x + 6 = 20$
2. $3a - 2 = 10$
3. $2x + 7 = x + 19$
4. $4m - 2 = 2m + 9$
5. $3(x + 2) = 2(x + 6)$
6. $2(2a - 1) = 2(a + 5)$
7. $5(m - 1) = 2(m - 6)$
8. $3(2x + 5) = 2(x - 7)$

Extension

Solve the following:

1. $3(x + 6) = 2(x - 5)$
2. $4(x - 1) = 2(x + 6)$
3. $3(x + 4) = 2(x - 8)$
4. $2(x + 5) = 3(x + 7)$
5. $3(x - 1) = 2(2x + 7)$
6. $2(x - 1) = 2(2x + 9)$
7. $3(x + 2) = 3(2x - 7)$
8. $5(a - 1) = 2(a + 6)$