Key:

1. The least positive answer is P = 5, but of course -5 works as well. I suspect this is the answer, though I have yet to prove that 25 is the only perfect square that is the sum of a power of 2 and a power of 3. Can you prove it … or find a counterexample? E-mail me.

2. -100

3. About 40min, 9.5 seconds. 60/57 hours minus 23 minutes.

4. There are no possible values for k, so 0 is the answer here.

5. $375\sqrt{2}/2$

6. -7/2