Investigating Prime Numbers

The Goldbach Conjecture states that all **even numbers** greater than two can be written as the **sum** of two **prime numbers**.
Show that this is true for all even numbers from 4 to 50.

4	$2+2$	**28**	$17+11$
6	$3+3$	**30**	$23+7$
8	$3+5$	**32**	$19+13$
10	$5+5$	**34**	$17+17$
12	$7+5$	**36**	$19+17$
14	$11+3$	**38**	$19+19$
16	$13+3$	**40**	$23+17$
18	$13+5$	**42**	$23+19$
20	$13+7$	**44**	$13+31$
22	$11+11$	**46**	$23+23$
24	$13+11$	**48**	$31+17$
26	$13+13$	**50**	$31+19$

Goldbach also suggested that all **integers** (whole numbers) **greater than six** can be written as the sum of **three prime** numbers.
Show that this is true for all numbers from 6 to 25.

6	$2+2+2$	**16**	$2+3+11$
7	$2+2+3$	**17**	$3+3+11$
8	$2+3+3$	**18**	$2+3+13$
9	$3+3+3$	**19**	$3+5+11$
10	$2+3+5$	**20**	$2+7+11$
11	$3+3+5$	**21**	$3+5+13$
12	$2+3+7$	**22**	$2+7+13$
13	$3+3+7$	**23**	$5+7+11$
14	$2+5+7$	**24**	$2+5+17$
15	$3+5+7$	**25**	$7+7+11$