Power from the Wind Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. The formula for kinetic energy is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. The air’s mass = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. Wind energy = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
4. Wind power = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
5. Wind power is directly proportional to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
6. The greatest contributor to wind power is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
7. If the velocity is doubled the wind power is \_\_\_\_\_x times more.
8. The ratio of practical power to theoretical power abstracted from the wind is called the \_\_\_\_\_\_\_\_ factor and is equal to \_\_\_\_\_\_\_.
9. Practical wind power = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
10. Actual practical wind power is less than the equation above due to \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
11. The purpose of pitch control is to